

PROFILE

Highly motivated and enthusiastic software engineer with expertise in program, design and integration of proprietary software systems and devices. Ability to work autonomously and as a team player, with demonstrated strengths in leadership and mentoring situations. Easily adaptable to change, with an eagerness to learn and expand capabilities.

EDUCATION

M. S. in Computer Science; University of Southern California (2004)

Area of Specialization: MULTIMEDIA & CREATIVE TECHNOLOGIES

B. S. in Computer Science; University of Southern California (2003)

EXPERIENCE

Enterprise Projects and Innovative Services

California, International (11/2007 - Current)

1. Built intelligent computer algorithms and developed configurable and automated systems for building web applications, complex database management and automated data processing all-in-one package. Implemented client modules for multi-task management, supporting multi-environment data flow handlers and multiple view configurations. Bridged User Interface, processing and database through automation, to create one system that can be configured to do any job, installed at any place, manage multiple services, serve multiple users, with easy multifunction and multitasking, that can function as a standalone application or as a component of a main system working in transparent synchronization. It can simultaneously connect to UI, AJAX, web services, all types of server processing, mobile applications and can support third party API services model of communication. It can create its own configuration panels and can support multiple data views and user application views. It has built in filtering, security and encryption. Next stage, planned efforts will further enhance the overall product configurations and application view setups to enable a complete transparency bridge from system requirements to building a multi-user fully functional web service or application (of any form or size ex. Facebook.com) through multi level requirement configuration, and with minimal or no coding efforts. Fast, reliable and productive solutions to create new services or enhance existing services. Available to demo and show extra info to PowerPoint.
2. Created multi-channel web based engine for collecting, classifying, structuring and systemizing web channels and services into a single product in a single interface. Uses technology that can simultaneously read multiple environments, and scale to any complexity. Price Checker utilizes this technology and is an automated pricing report product for online merchants and shopping sites. This tool allows customers to research specific products, view prices, images, description and reviews, and compare prices, availability and competition across multiple shopping channels. It allows them to view competing other merchant positions and evaluate tolerant price point in the channels. Customers are able to create custom, auto-generated reports via a user-friendly dashboard, allowing them to obtain the specific information they need and to control the frequency in which they receive it. Price Checker currently compares product pricing across 13 channels including Google, Amazon, Bing, Shopping.com, Ebay, Nextag, Shopzilla and Yahoo. Price Checker has been on the market for 38 months. It is licensed to companies that service online merchants and it generates 6,000-10,000 searches daily. There are works on future iterations of Price Checker that will integrate additional shopping channels and provide exhaustive product data and pricing information including shipping and tax information, historical price change summaries, and percentage price change alerts. Next stage, planned efforts will enable to implement this technology to directly to the front end architecture, enabling maximum channel Google like speeds, complete transparency of search channels and multi million search capacity limited only by the capacity and speeds of the host search channels.

Senior Lead UI and Web developer

Adap.tv; San Mateo, California (5/2008 – 4/2009)

Worked with leading team in building intelligent solutions for combining ad channel networks as an ad revenue service platform for video hosting clients and TV clients reached through Internet marketplace. Created configurable popup ads,

pre-video and post-video ads with mirror and shade effects, automatically adaptable to different sizes, feeds, formats and shapes for timed and animated expositors of images, videos and text. Worked on different variations of UI look and feel with transparency layers, animations and auto-fitting UI modules compatible for all types of web-browsers, including mobile browsers. Implemented functionalities related to server processing models in relation to the model database and synchronizing communication to the UI front-end features and services. Worked closely with designers, managers and producers to effectively model and accomplish new products and services. Company announced a buyout conformation from AOL in 2013.

Senior Web Developer

Kosmix Corp; Mountain View, California (10/2006-3/2008)

Managed, designed and integrated UI applications for innovative vertical search engine. Researched best industry standards, filtered best practices and invented new methods for writing single bulletproof HTML, CSS and JavaScript code compatible for IE 5/6/7, Firefox, Opera, Netscape, Mozilla, Safari, AOL Explorer and %95 of other browsers. Created horizontal and vertical menus, implemented intelligent auto resizing and repositioning, shadow casting, fade in/out search and content widgets, created active data and color diagrams, integrated cool looking UI modules and showed extreme creativity. Used firebug, IE developer toolbar, Photoshop, prototype library, AJAX, JSON, browser native objects, DOM objects, OO JavaScript, events, zen garden CSS and other. Worked with C++, CSP and peeked at Ruby on Rails. Brought unique new ideas for autos and travel verticals and worked to their final execution. Company was bought by Walmart in 2011.

Inventor/Manager/Developer

Myhtmldatabase; Mountain View, California (11/2007-3/2008)

Invented, created and implemented AJAX, JSON database service for the next generation of web users.

Lead UI and Software Engineer

Dorado Corp; San Mateo, California (10/2005-10/2006)

Implemented and monitored UI and server side interfaces in multi-project environment for highly specialized Enterprise Level Business Applications (Channel Master) in the mortgage industry. Worked for Fifth Third Bank, Washington Mutual, First American Financial Services, Aegis Corp and PHH. Demonstrated exceptional ability to perform well and excel in leadership roles. Worked with full-scale multi-level UI applications and session mappings, successfully fixed bugs & errors, met with clients, created technical documents and implemented new requirements, did testing and deployment, and showed exceptional creativeness for UI look and feel. Extensively worked with HTML/DHTML/XHTML, CSS, JavaScript, Java, XML, Photoshop and other industry related implementations (OSO calls, Field Objects, iFOS forms, Rules ...). Worked with high-end Java MVC parsers, data mappings, class and object interfaces, multi-level class extensions and demonstrated exceptional abilities in object oriented programming. Extensively used Eclipse, Weblogic, Perforce (CVS), snoop, maestro and Ant. Received high recognitions from PM Managers, Directors and the CEO for the great work.

Database and Web Designer/Developer

Sunshinenannies Inc. & Dating Site; Los Angeles, California (10/2004 - 9/2005)

Designed, programmed and maintained complete database and web pages for a professional employment agency; plus designed fully working dating site. Used HTML/DHTML, XHTML, CSS, JavaScript, Perl, AJAX, Actionscript 2.0, Flash, Photoshop, Illustrator, MYSQL/SQL. Developed tools for customer support and request broker. Database features include: multiple entry forms with photo uploading, 4-way multi-selection search, multi-task navigation interface, adjustable records-per-page layout, customizable client forms generation, full maintenance capabilities. Used on daily basis and highly secured it represents the most valuable asset of the business. Dating site extras include: remote access detection, one-to-one chat-rooms, personalized picture profiles, individual message bins, automatic e-mail events, geographical search by maximum distance from zip, love forecast. Incorporated novel design with high levels of precision and ergonomics.

Software and UI Developer

Autobytel Co.; Los Angeles, California (2001 - 2003)

Created Java, J2EE tools for spell checking and bookkeeping. Extensively used eclipse interface and architecture. Developed eclipse, WebSphere plug-ins in Java based environment. Detailed understanding of plug-in development and lifecycle from deriving requirements, modeling, coding, debugging, testing, building and installing using Java. In depth knowledge of SWT, Jface, Actions, Action Delegates, Views, Editors, Dialogs and Wizards. Mapped classes from J2EE environment into local database, created stub files and used sessionFactory properties and functionality. Used Hibernate and Struts to build MVC design patterns and coordinate web application development. Implemented interactive tool interface for workers and managers. Worked with in-house Asset Management business client, analyzed requirements, wrote requirements documents, development implementation plans, wrote and launched new workflow control application. Created and maintained relational database system in SQL database. Implemented using Java, JavaServlets, JSP, JBoss, Tomcat, PERL, AJAX.

Software Engineer

Precision-Nerve; Los Angeles, California (1999 - 2001)

Used HTML/DHTML with Javascript and CSS to design user interface with redesigned layout and functionality. Improved user interaction with point-changing table row colors, other key visual elements, and flipping buttons. Enhanced tool keyword search databases and functionality. Direct experience with Java Threads, Sockets, RMI, VoIP, RTP, RTCP and Tomcat. Programmed databases in Java, Unix, Perl and PHP. Developed tools for messaging and communication. Designed department search for products and services. Improved record keeping for employees. Linked programmer notes with customer requests. Earned invaluable workplace experience, skills and knowledge of the corporate atmosphere.

PROFESSIONAL SKILLS

PROGRAMMING LANGUAGES: Java, J2EE, C/C++, Eclipse, AJAX, WebSphere, Hibernate, Struts, Visual Basic, Assembly, LISP
Web: HTML/DHTML/XHTML, JavaScript, CSS, CSS2, XML, Perl, CSP, JSP, JavaServlets, PHP, Python, ASP, Flash, SOAP, CORBA, Weblogic, Apache/Tomcat, JBoss, MYSQL/SQL, JDBC, Maestro, Snoop
OPERATING SYSTEMS: UNIX, Solaris, Linux, DOS, Apple OS, Microsoft Windows NT/9x/2K/XP, IBM AIX.
APPLICATIONS: Eclipse, MS Office, Photoshop, Illustrator, Powerview, Corel Draw, AutoCAD

PROJECTS

Object Oriented Programming in C++ and Java

Designed OO database systems, search engines and processing algorithms involving inheritance, virtual functions, index pointers, hash tables, STL, function and constructor overloading, file manipulations, threads and schedulers, virtual memory implementations, kernel and system programming, locks and monitors.

3D Graphic and Animations

Implemented 3D engine for drawing figures with triangular connectivity points. Applied 3D transformations and rotations in world and camera space. Designed 3D renderer, z-buffer, line drawing and scan line drawing algorithm. Implemented color drawing, shading and texture mapping by averaging face normals. Applied 3D rotations, animations, rendering, and navigation through 3D space of a multi-object environment. Implemented real-time object deformation algorithm. Applied coherence of the matter, object rigidity and deformation vectors.

JPEG compression/decompression

Architected a complete jpeg converter from a single source PPM file. Implemented forward and backward DCT transform of the image into frequency domain. Used quantization tables, run-length encoding and byte compression. Algorithm is capable of variable ratio compression sizes up to 100:1 while retaining the original resolution and experiencing minimal loss of picture quality.

Web Design and Databases

Implemented a complete website designs, database system managements and chat rooms. Installed and worked with Apache, Tomcat and Java Web Servers. Used JDBC, Java Beans, Java Servlets and JSP. Created XML ontologies in Jena API, parsed XML documents using DOM parser, designed database queries using MySQL and Access databases, worked with perl modules such as Finance::Quote and Geo::Weather.

Gaming Engine, Fuzzy Logic and Planning

Implemented gaming logic for Backgammon. Used minimax algorithm, heuristic functions and pruning. Worked with self-weighted neuro networks and perceptrons in C. Designed a hill climbing algorithm. Designed interactive system robot navigation in real world C++ API environment. Implemented and designed Fuzzy Logic algorithms with defuzzification, aggregation, cutoff, center of mass, hough transform, voting mechanism, and a partial order planning from a start state to a goal state.

AWARDS

Computer Programming Award II (second place)

Skopje, Macedonia (1997)

Won the II (second) place in computer programming. Wrote a graphical program with interactive interface capable of drawing multi-sided 2D and 3D figures. Implemented rotational capabilities for objects and color management for flat surfaces.

Computer Programming Diploma

Skopje, Macedonia (1996)

Won the second place at the 36th City Competition.

RESEARCH: EYE-MOTION BEHAVIOR AND ANIMATION.

RELEVANT CURRICULUM

3D Graphics and Animation, Operating Systems, Compilers, Advanced Web Programming, Database Systems, Embedded Software Systems, Computer Networks, Computer Communications.

HONORS & MEMBERSHIPS & LANGUAGES

IEEE COMPUTER SOCIETY - OCCS Executive Committee
UNIVERSITY OF SOUTHERN CALIFORNIA - Honors Student
LANGUAGES – Macedonian, Serbian, Croatian, Bulgarian,
Russian, German.

EXTRACURRICULAR ACTIVITIES

VOLLEYBALL – USC Regional Volleyball (2001 – 2003);
California League, SMC, middle pos. (1999-01);
Second League, Macedonia (1994-1999).
ACCORDION - Rhythm/Lead, SG Band (1995-1999).