Mark Sargeant

19321 NE Glenwood Ct.   (360) 649-7223
Poulsbo, WA 98370   marksargeant@gmail.com

Objective

Immediately interested in matching my well-rounded technical background with an exciting opportunity in ecommerce development. Ideal position will allow creative flexibility to apply bleeding edge solutions to a successful brick-and-mortar company with minimal existing online presence. Work environment should support my passion for innovative technology as well as challenge creativity and expertise with worthwhile responsibilities.

Education

Master of Science, Computer Engineering
University of Southern California

Bachelor of Science, Computer Engineering and Computer Science
Minor in Business
University of Southern California

Technical Experience

Aduup Inc. | Seattle, WA   *April 2008 – August 2008*

Designed and developed critical components of an online marketing network interface capable of managing thousands of clients and serving millions of advertisements each minute. As a Senior Software Engineer, major responsibilities included supervision of data management, production of web applications supporting both publisher and advertiser operations, and technical oversight of customer relations. Data management activities were all-inclusive, involving the design and documentation of a complicated data model, construction and management of the database content, and development of applications to support the flow of data into and out of critical system components. Also led the production of a subsystem that facilitated synchronization of disparate databases with entirely differing design schemas. Back-end web application development supported automated collection of publisher and advertiser information as well as provided a tool set for marketing operations team to easily and effectively manage accounts. Automation between internal data collection system and SalesForce interface was implemented. Frequently interacted with customers, sales managers, vendors, and partners to ensure that the development team provided timely and effective solutions to integration and customization challenges while bringing creative new technologies to market. Work was primarily done in the LAMP environment, utilizing PHP5, MySQL, Javascript, and AJAX on a daily basis.

Weston Mason Marketing | Santa Monica, CA   *August 2006 – April 2007*

Successfully oversaw the operation of Weston Mason Marketing's Technology Division as managerial consultant. Coordinated and guided programmers maintaining and designing online interfaces for high-profile clients, including five of the top six real estate developers in the United States. Ongoing projects included providing online resources for each company's decision makers, web site design, development, and maintenance, implementation of customized content management systems, precision email marketing campaigns, intelligent collection of pertinent marketing data, and a focused redesign of proprietary PHP deployment system which increased department-wide efficiency by applying innovative and new dynamic programming techniques. Work was primarily done in the LAMP environment, utilizing PHP4, MySQL, Javascript, and AJAX on a daily basis.

University of Southern California | Los Angeles, CA   *August 2006 – December 2006*

Taught C++ Data Structures class as a Lab Instructor. Prepared and delivered bi-weekly presentations, designed and evaluated weekly programming assignments, and assisted in all aspects of the education process for over sixty students. Supervised students in the completion of a large-scale multi-agent project which incorporated correct application of numerous data structures, OOP techniques, and Artificial Intelligence fundamentals. For my exceptional efforts and unique talents in this venture I was awarded TA of the Year for the University of Southern California. This work required excellent C++, presentation, and mentoring skills.

University of Southern California | Los Angeles, CA   *January 2006 – May 2006*

Independently performed a research project with the guidance of a prominent Artificial Intelligence professor, applying statistical machine learning techniques to practical use monitoring and predicting users' preferences. The centerpiece of this project was a naïve Bayesian discriminator which learned what on-campus seminars professors would be interested in attending and emailed them only relevant announcements, somewhat like a very proactive spam filter. Work on this project was done in Java, utilizing Servlets and JDBC interface to a MySQL database.

University of Southern California | Los Angeles, CA   *August 2005 – December 2005*

Led a three-person team which designed and developed extensions of the NACHOS Operating System, originally released by the University of California at Berkeley. Implemented advanced resource management techniques and message passing routines which drew upon TCP layer infrastructure to act as 'mailbox' objects within operating system processes. Work on this project was done in C++ on UNIX.

University of Southern California | Los Angeles, CA   *January 2005 – May 2005*

Competed on a robotics team which designed and created a number of autonomous omni-bots for a simulated search and rescue mission. Emphasis was placed on collaborative behavior and specializations within the team of robots. Personal responsibilities included localization, route planning, and error correction. Work on this project was done in a Java-derived language and hardware included infrared sensors, sonar sensors, bump sensors, single-lens ocular sensors, wireless communication devices, and servo-actuators.

Life Experience

US Marine Corps | Ramadi, Iraq   *April 2007 – April 2008*

Served a combat tour as Team Chief of a special forces Firepower Control Team directly supporting the Iraqi Army after being activated from the Marine Corps Reserve. Prerequisite experience included stress-tempered leadership, expert VHF, UHF, and satellite communications skills, forward observation and the ability to control fixed and rotary wing air assets during combat operations. Responsibilities included maintenance and operation of classified cryptographic communications equipment, accountability for sensitive items, development and implementation of tactical measures for extended convoy operations, vehicle-mounted patrols in urban and desert environments, urban foot patrols, instruction of subordinate Marines in combat-related subjects, supervision of Marines performing daily tasks to ensure mission-readiness, and most importantly, ensuring that all my Marines made it back home safely.

University of Southern California | Los Angeles, CA   *April 2007 – April 2008*

Supported over seventy new students as a Residential Advisor throughout the span of two years. Daily tasks required excellent communication, motivation, energy, and paraprofessional counseling skills. Frequently organized students into activity groups or intramural teams and planned countless events in and around the greater Los Angeles area to explore culture, art, entertainment, community service, athletics, and always development for both groups and the individuals composing them. Oversaw every aspect of students lives and served as a mentor both personally and academically, helping them overcome challenges within and external to student life. This experience is important because these skills help me act as a catalyst in the work place, naturally facilitating communication and organizing groups to solve problems that would otherwise consume significant man-hours or yield less than optimal solutions.

Professional References

Jonathan Chiquette, VP of Operations
Aduup, Inc. | Seattle, WA
jonathan@xsive1.com
(206) 245-7672

Daniel Pezely, Director of Engineering
Aduup, Inc. | Seattle, WA
daniel@pezely.com
(206) 250-9830

Lane Bullard, Creative Director
Weston Mason Marketing | Santa Monica, CA
lbullard@westonmason.com
(310) 207-6507 x254

Mark Larsen, Major, Detachment Commanding Officer
US Marine Corps, 3rd Air Naval Gunfire Liaison Company USMC
mlarsen@san.rr.com
(858) 414-8318

Bobby Calzada, Lieutenant, Firepower Control Team Leader
US Navy, 3rd Air Naval Gunfire Liaison Company USMC
bobbyc_flyguy@yahoo.com
(858) 405-5860

Please be respectful and contact my references responsibly.