

John Plaxco

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Objective:

Gain experience in my chosen field of computer science with an emphasis on creative uses of network resources while contributing to a dynamic, forward-looking company.

Summary of Qualifications:

- Fluent in a wide variety of programming languages, including Bourne scripting, C, C++, Java, Perl, and object-oriented PHP
- Somewhat familiar with proprietary web technologies such as Flash and Flex
- Skilled in the use of web service technologies, including HTML, XHTML, XML, AJAX, CSS, and Javascript
- Familiar with the Linux development tool chain
- Experienced with network programming, including TCP and UDP socket programming and protocol design
- Familiar with creating raw IP packets and Ethernet frames
- Experienced with programming to and designing schema for databases including MySQL, PostgreSQL, Sybase IQ and Oracle
- Practiced in developing software for embedded and mobile devices, including J2ME and iOS
- Managed local area networks, VPNs, and network storage servers
- Knowledgeable in system and network security, including virus scanning and firewalls
- Over 15 years experience building, administering and providing technical support for desktop and server machines running Linux and Windows
- Led programming teams for school and work projects, gaining experience in team conflict resolution, scheduling, coordinating development, and evaluating member strengths and weaknesses
- Can learn new programming languages rapidly

Education:

Georgia Institute of Technology, Atlanta, GA
B.S. in Computer Science, May 2006
Emphasis on network and systems technology
Atlanta Technical College, Atlanta, GA
EMT-Intermediate certification, April 2011

Research:

- Adaptive network protocols for mobile devices using multiple networks
- User-Mode Linux as a virtualization method for web hosting
- Multi-tiered A* graph pathfinding algorithm in real-time strategy games
- Using OpenMosix clusters to efficiently find sequences of prime numbers
- Machinima as a content delivery mechanism for mobile devices

Experience:

Yume Software Independent Contractor, 2002-2012

- Designed and implemented iPhone-based postcard ordering system, including data storage and secure credit card processing, app development and backend implementation
- Designed and implemented a trickle-marketing system, including secure web interface and credit card processing, mass email generation, pdf generation, per-client customization, and custom reporting
- Designed and implemented web-based insurance application system, with special emphasis on data security and privacy legal requirements
- Designed and implemented custom data conversion tool for proprietary retirement data for the Teacher's Retirement System of Georgia

Ztar Mobile Senior Software Engineer, 2009-2012

- Designed and implemented replacement international call routing system, including hardware requirements analysis, server and service configuration, high availability and scalability design, billing API, customer service API, reporting API, and custom voice application API
- Designed and implemented service reseller portal, including service activation and management, affiliate pricing, automated billing, banking system integration, inventory management and predictive ordering

Millions of Us Senior Engineer, 2008

- Designed, built and documented mini-games for inclusion in the Sony PS3 Home system
- Designed, built and documented electric car infrastructure game for the Better Place electric car company
- Designed a massively multi-player online game for the Rainbow Magic children's book franchise
- Designed and built a prototype car racing game in the Unity engine for Hot Wheels
- Managed two Millions of Us websites and one client website, including migration of hosting, content management, databases, FTP access, search engine optimization and content delivery optimization

Purewire Senior Engineer, 2008

- Designed and implemented product configuration web interface, service configuration web interface, reporting infrastructure, and product and service integration with support infrastructure

- Helped design database schemas for product and service configurations, support infrastructure, and inter-module communication
- Implemented prototype of research environment portal

Secure Computing Senior Engineer, 2007-2008

- Managed content, database queries, custom code and Flash components for trustedsource.org research portal, optimized for scalability
- Worked closely with server and network operations teams to determine hardware specifications for new and existing product needs
- Lead implementation of two web-based security products from concept through customer evaluations to production, including functional and technical specification, architecture, environment setup and actual coding
- Rewrote internal web applications for research and technical support use to conform to web standards and to drastically improve performance

References:

Kevin Kurz

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Steven Short

Senior Software Engineer, Ztar Mobile
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