BRETT SCHWARZ

Principal engineer with in-depth understanding of mobile and IT network architectures. Possess significant experience with product, service, and software life cycles, and customer engagement. Effective at adapting to different environments, concepts and technologies.

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⚒ SKILLS

Wireless
2G, 3G, GSM, CDMA, UMTS, LTE, messaging (SMSC), subscriber services (HLR, HSS)

Integration
Mobile Networks, IT Networks

Web Services
REST, OpenAPI (Swagger), Oauth 2.0, JSON Schema, HTTP/1.1, HTTP/2, SOAP, WSDL, XML, GraphQL

Network Architecture
Mobile Networks, IT Networks

Web Development
HTML5, CSS, JavaScript, jQuery, Node.js, Knockout.js, AngularJS, Bootstrap, Foundation, Gulp, Grunt, Apache, Naviserver

Software Development
C, Tcl/Tk, JavaScript, Python, Java, shell, Git, GitHub, CVS, SVN, Bitbucket, Agile, DevSecOps

Computers
Linux/Unix, Windows, Mac, TCP/IP

Databases
PostgreSQL, SQLite, MySQL, Oracle, MongoDB

Testing
Functional, UAT, unit, performance

💼 EXPERIENCE

▶ Principal Technical Architect, AT&T
June 2015 - Present

- Architected, developed, and productized an internal web application to automate and expedite API design, maintenance, and delivery.
- Established best practices for web services across AT&T as a member of the internal standards team.
- Oversaw and improved API design, security, and privacy for externally exposed APIs as a member of the external API governance team.
- Advanced the adoption of OpenAPI (Swagger) across the company by developing tools and educating internal teams.
- Consulted and mentored internal teams, specifically microservices, on API design to optimize the solution based on project goals and existing network architecture.
- Accelerated REST adoption by authoring numerous articles on REST concepts/design and collaborating on a company-wide training program.

▶ Solution Architect, Sentaca
June 2011 - May 2015

- Ensured optimal solution by collaborating with customers and internal teams on technical and business requirements.
- Collaborated on the architecture of end to end solutions for the service exposure layer of enterprise and consumer services.
- Promoted API solutions at conferences and hack-a-thons by educating and demonstrating to customers the solution's capabilities.
- Deployed and tested API solutions with high availability, scalability, and low latency design criteria into the Amazon AWS EC2 and AT&T AIC cloud.
- Streamlined internal documentation system by implementing tooling and improved processes.

▶ Senior Test Engineer, AT&T
October 2010 – June 2011

- Headed the performance testing efforts for the messaging platform.
- Mentored team members on mobile and IT networks.
- Developed software tools for automation, troubleshooting and to interact with the platforms.

▶ Senior Engineer, T-Mobile
May 2010 - October 2010

- Designed and engineered subscriber-based mobile network elements.
- Authored requirements, MOPs, and process documentation.
- Developed tools to streamline the implementation and troubleshooting.
- Successfully lead the engineering team on a complex subscriber and partner migration to a new platform.

▶ Technical Sales Engineer, Alcatel-Lucent
August 2008 - September 2009

- Supported sales team with technical expertise for product presentations and consultations to the customer up to the VP level.
- Achieved highest-ranked sales engineer status by assisting the sales team to secure a major strategic win.

✏ EDUCATION

BS Mathematics & Electrical Engineering (Honors)
University of Toledo

Nanodegree Front End Web Developer
Udacity

📰 PUBLICATIONS

Asterisk Open-Source PBX System
Linux Journal – February 2004
http://www.linuxjournal.com/article/6769

Hacking Red Hat Kickstart
Linux Journal – April 2003
http://www.linuxjournal.com/article/6473

💬 LANGUAGES

English

Spanish

German

Mandarin

💼 EXPERIENCE (cont)

▶ Senior Network Systems Engineer, Alcatel-Lucent
Nov 2005 - Aug 2008

- Headed the performance optimization customer team from an engineering and project management role.
- Accelerated customer's understanding of the products by providing presentations and weekly performance updates to customer up to the VP level.
- Reduced turnaround time and increased effectiveness of statistics reporting by developing an internal web-based reporting tool.
- Collaborated with development and system engineering on performance issues to improve the product's performance.

▶ Implementation Engineer, HMS Software
Jan 2005 – Nov 2005

- Translated requirements from the customer into customized code that implemented new features into our standard software product (manufacturing ERP).
- Performed testing, managed all bug fixes and collaborated with the customer on the integration of the solution.
- Increased productivity by mentoring other engineers in the Tcl programming language.
- Optimized legacy code by conforming code to new features.

▶ Senior Engineer, AT&T Wireless
April 2003 – December 2004

- Engineered messaging platforms (e.g. SMSCs) within the company's mobile network.
- Worked with the vendor to find the optimal solution and verification of the solution.
- Reduced response time and improved quality by developing several software tools.

▶ Lead Network Engineer, PacketVideo Corporation
June 2000 – April 2002

- Designed, tested and integrated our server (Linux) platform installation and architecture.
- Lead first complete integration effort of our product line into the customer's network (JSP and servlets on Apache/Tomcat).
- Significantly reduced cycle time and improved quality by developing a customized RedHat Linux Kickstart installation.
- Improved internal communication by developing a web application for installation activities.
- Provided pre and post-sales support, including presentations for the customers.

▶ Lead Systems Engineer, Motorola
October 1996 – June 2000

- Designed, tested and integrated products into the customer's mobile network.
- Lead several major network changeouts for the engineering team.
- Enhanced subscriber accessibility by developing procedure and software tools to migrate/modify subscribers efficiently and in a significantly reduced time frame.