BRETT SCHWARZ

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

✉ brett.schwarz@gmail.com
📱 +1.425.466.1731
📍 Bellevue, WA, USA
↗ bschwarz.github.io
in www.linkedin.com/in/brettschwarz

⚒ SKILLS

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

Integration
Mobile Networks, IT Networks

Web Services
REST, OpenAPI (Swagger), 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

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 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 on API design to optimize the solution based on project goals and existing network architecture.
- Contributed a significant amount of content and knowledge towards an internal company-wide training program for REST APIs.
- Accelerated REST adoption by authoring numerous articles on REST concepts and design, and specifically with the microservices teams.

Solution Architect, Sentaca
June 2011 - May 2015
- Ensured proper service integration with existing architecture by collaborating with customers and internal teams on user stories.
- Designed and authored specifications for REST APIs.
- Promoted and educated customers on APIs at conferences and hack-a-thons.
- Streamlined internal documentation system by implementing tooling and process improvement.
- Developed automation tools for API verification.

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.

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.