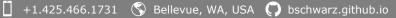
Brett Schwarz

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.

brett.schwarz@gmail.com





in brettschwarz

✗ Skills

Experience

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, WebSockets, SOAP, WSDL, XML, GraphQL, RAML

Network Architecture

Mobile Networks, IT Networks, TCP/IP, OSI, AWS Services, Azure Services

Web Development

HTML5, CSS, JavaScript, jQuery, Knockout.js, AngularJS, Bootstrap, Foundation, Gulp, Grunt, Apache, Naviserver, Tomcat

Software Development

Tcl/Tk, Node.js/Express, C, Python, Java, shell, Agile, Alexa

Computers

Linux/Unix, Windows, Mac, MS Office

Datastores

PostgreSQL, SQLite, MySQL, Oracle, MongoDB, DynamoDB, Redis, Memcached

DevSecOps

Git, GitHub, Bitbucket, CVS, SVN, Jenkins, Travis CI, SonarQube, Kubernetes, Docker

Principal System Engineer, AT&T

June 2015 - Present

- Envisioned, evangelized, architected, developed, and productized an internal web application that reduced costs and sped up delivery by at least 50%.
- Established best practices for REST web services across all of AT&T as a member of the internal standards team.
- Oversaw and improved API design, security, and privacy for externally exposed APIs (at least two per week) as a member of the API governance.
- 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 (at least one per week).
- 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.
- Designed a new documentation system improving workflow and quality.

Senior Test Engineer, AT&T

October 2010 – June 2011

- Headed the performance testing efforts for the messaging platform, including authoring test cases, test case execution, and managing defects.
- Mentored team members on mobile and IT networks, by holding periodic workshops and consulting on projects.
- Developed software tools for automation and troubleshooting.

Senior Engineer, T-Mobile

May 2010 - October 2010

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

▶ 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

Experience (cont)

BS Mathematics & Electrical Engineering (Honors)

University of Toledo

Nanodegree Front End Web Developer Udacity

Certifications

AWS Certified Solutions Architect - Associate Certificate badge AWS01128751



Asterisk Open-Source PBX System

Linux Journal – February 2004 www.linuxjournal.com/article/6769

Hacking Red Hat Kickstart

Linux Journal – April 2003 www.linuxjournal.com/article/6473

Languages

Mandarin



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 the customer up to the VP level, on the core network (GSM, UMTS).
- 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

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.