## **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

## **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, IAM, SOAP, WSDL, XML, GraphQL

#### **Network Architecture**

Mobile Networks, IT Networks, TCP/IP, OSI

#### Web Development

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

#### Software Development

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

#### Computers

Linux/Unix, Windows, Mac, MS Office

#### **Databases**

PostgreSQL, SQLite, MySQL, Oracle, MongoDB

#### **Testing**

Functional, UAT, unit, performance

### Principal System Engineer, 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.
- 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 and partner migration to a new platform.
- 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

## **PUBLICATIONS**

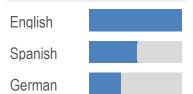
## Asterisk Open-Source PBX System

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

#### Hacking Red Hat Kickstart

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





Mandarin

## Senior Network Systems Engineer, Alcatel-Lucent Headed the performance optimization cust

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 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.