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| 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. | |  |  | | --- | --- | |  |  | | **https://lh6.googleusercontent.com/iIVxstQrdx7pYiu-fbUyCZ5MkHsb9v3hL6zmTIb489UpuJKJKaClKmLfIgIiBvT9w-cPzDG5zc6hxm0-vK6LgFLAr_xaFyX4FwZXkUrmJwduWUgWOUXUgd2J884tBdiy_UVm5gv1Znw7** | [brett.schwarz@gmail.com](mailto:brett.schwarz@gmail.com) | | **https://lh4.googleusercontent.com/mapIxslj7yHbo5OUMNaEFQNtmFh2onG6jhGPZTAfe8XUJSdbnqEiak2SDI0qqZR8jhWww6R-fA4C9h8N5DNWrQIyMCVQKGNaaT9ehhM4EfhKeNGBJJ3r8S2QPV7lxJcOozXoldSwhILH** | [+1.425.466.1731](tel://+14254661731) | | **https://lh4.googleusercontent.com/cXwDEkHayJgDHVK3XRsf_XRfXOFFnJMLg6yhqz06gA_hm6dUYDqPlfzcWlQ_JfSahTBarXYGxEBYPKT0O-C8nJVAhclt_5RKJyyfFm1IvbCh6hBY2oepMQgF_VsSVr1AppevYQ1uncyD** | [Bellevue, WA, USA](https://www.google.com/maps/place/Bellevue,+WA/@47.5978498,-122.2213428,12z/data=!3m1!4b1!4m5!3m4!1s0x54906bcfa3a66041:0xbacf5482ead00765!8m2!3d47.6101497!4d-122.2015159) | | **https://lh6.googleusercontent.com/xiJ4QerYgaQf8XppGzX175LPqedbBPgME5GSPkd3aboNB2Q5ZzltK2QPngMLnMNc27VqGLHvo8Z4Ijnuh0d9_U7EsWigi9cIbYgHuf2B8AQSCjf5W5-KkbONT__EYfAhkJKVGjU5JYGz** | [bschwarz.github.io](https://bschwarz.github.io) | | **https://lh5.googleusercontent.com/c1ot7xQBqUShIzgYb2X3m7mDunRj850TnV9m6qEorJZPyU6h-EPMGu0UsAM4pFfQ-HSQMJJXdCpMAj0IwLdidXc_YXLsuMpO8E-zrS3LvfJ_5th9qWBG5Zs50XScdZ_uMlhm6QivzeUK** | [www.linkedin.com/in/brettschwarz](https://www.linkedin.com/in/brettschwarz) | |

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| Tools SKILLS | Briefcase 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: IAM, Lambda, EC2, S3 | | | | | | |  |  |  |  |  |  | | Web Development | | | | | | | HTML5, CSS, JavaScript, jQuery, Knockout.js, AngularJS, Bootstrap, Foundation, Gulp, Grunt, Apache, Naviserver, Tomcat | | | | | | |  |  |  |  |  |  | | Software Development | | | | | | | Tcl/Tk, Node.js, C, Python, Java, shell, Git, GitHub, CVS, SVN, Bitbucket, Agile, DevSecOps, Jenkins, Travis CI | | | | | | |  |  |  |  |  |  | | Computers | | | | | | | Linux/Unix, Windows, Mac, MS Office | | | | | | |  |  |  |  |  |  | | Datastores | | | | | | | PostgreSQL, SQLite, MySQL, Oracle, MongoDB, DynamoDB, Redis, Memcached | | | | | | |  |  |  |  |  |  | | 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 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 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. | |
| Diploma roll EDUCATION | | Briefcase EXPERIENCE (cont) |
| |  | | --- | | BS Mathematics & Electrical Engineering (Honors) | | University of Toledo | |  | | Nanodegree Front End Web Developer | | Udacity | |  | |  |   Newspaper 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> |   Speech LANGUAGES   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | English |  |  |  |  |  |  |  |  |  |  | |  | | | | | |  |  |  |  |  | | Spanish |  |  |  |  |  |  |  |  |  |  | |  | | | | | |  |  |  |  |  | | German |  |  |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  | | 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 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. |