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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 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. | |
| Diploma roll Education | | Briefcase Experience (cont) |
| |  | | --- | | BS Mathematics & Electrical Engineering (Honors) | | University of Toledo | |  | | Nanodegree Front End Web Developer | | Udacity | |  | | Diploma Certifications |   [AWS Certified Solutions Architect - Associate](https://www.certmetrics.com/amazon/public/badge.aspx?i=1&t=c&d=2020-02-07&ci=AWS01128751)  [Certificate badge AWS01128751](https://www.youracclaim.com/badges/bd366c9b-c32e-4693-b34d-a1b2a264dad9/public_url)  Newspaper Publications   |  | | --- | | Asterisk Open-Source PBX System | | Linux Journal – February 2004 | | [www.linuxjournal.com/article/6769](http://www.linuxjournal.com/article/6769) | |  | | Hacking Red Hat Kickstart | | Linux Journal – April 2003 | | [www.linuxjournal.com/article/6473](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 *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. |