



Steven Burrell

Senior Software Engineer

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Software Engineer with over 10 years of real-world experience in developing and implementing modern software solutions. Skilled in both front and backend development, databases, APIs, agile/iterative workflows, and code automation. Proven track record of delivering innovative software solutions, creating customer first designs, leading and managing developers, and generating value and cost-savings for businesses. Exceptional communication skills and a passion for staying current with emerging technologies including AI. Seeking to leverage my expertise to drive innovation and create cutting edge software in a constantly changing code driven future.

Professional Experience

Senior Software Engineer LUMEN Technologies - Broomfield, Colorado

November 2017 – April 2024

Built an automation framework that allowed users to create their own autonomous workflows that could execute code, call 3rd party APIs, make decisions and call other workflows. Included a visual drag & drop editor for creation, automated company phonebook notification & paging system, as well as a robust permissions & group system alongside a suite of testing and deployment tools. The application was estimated to have saved the company 5,000+ working hours every month.

Designed and engineered a full stack application responsible for allowing our network technicians across the globe access to real time data for devices on the LUMEN network. The application processed 10k+ alerts per minute while allowing for complex search and data modifications across millions of standing alerts with average response times of less than 200 milliseconds.

Engineered a full stack web application responsible for monitoring and automating deployments for applications within the service assurance department. Features included an automatic potential impairment notifications system, custom version control and one-click deployment options for all our applications, as well as tools for fault tolerant data center failovers in case of emergencies.

Software Engineer Level 3 Communications - Broomfield, Colorado

May 2014 – November 2017

Created a web application for network engineers to build and maintain complex sorting profiles to fit network alerts to their responsible regions. The tool included an infinitely recursive drag and drop expression creator, directory structure designer, as well as savable custom sorting buckets for re-use across different profiles.

Developed a web application that allowed stakeholders to create fully customizable dashboards to visualize historical network events. Features included dozens of customizable graphing options, persistent public/private dashboards, live potential problem heat mapping, and a real-time search for alerts across hundreds of terabytes of historical data.

Wrote a suite of enhancement tools responsible for managing tasks across multiple departments. One tool was a SSO permissions system that allowed for customizable groups and authorization. Other applications in the company could leverage this interface to design and create their own custom permissions for integration into their applications.

Education

Bachelor of Computer Science Colorado State University - Fort Collins, Colorado

May 2011 – May 2015

Pursued a Bachelor of Science in Computer Science and minor in Business administration, completing coursework in data structures, algorithms, software engineering, web development and human computer-interaction. Developed strong programming skills in languages including Java, JS, PHP, C, C++, and Python.

Coursework: Algorithms & Data Structures, OOP With Java, Image Processing with C++, Java Engineering, Unix Computing, Web Development, Human-Computer Interaction, Database Management, Logic & Critical Thinking, Network & Cyber Security, Low Level Computer Architecture

Key Skills

- **Frontend Development** - JavaScript, Vue, Angular, Data Modeling, Responsive Design, UX/CX, SASS, Bootstrap
- **Backend Development** - Node, PHP, Java, Python, APIs, NPM, Load Balancing, Tomcat, Apache Webserver, Docker, Kafka
- **Databases & Structures** - Document & Key-Value Stores, SQL, JSON, Redis, Elasticsearch, LDAP, CouchDB
- **Business Proficiencies** - Scrum, Agile Methodologies, JIRA, Presentations/Demos, AWS, Data Analysis, Telecommunications
- **Additional Expertise** - Wireframing & Prototyping, Unix Systems, Automation Tooling, AI, GIT/SVN, Full Stack Engineering