

About

I'm a passionate, self-taught software engineer with a well-rounded background in IT, support, management, and DevOps.

My inquisitive nature and affinity for problem solving have allowed me to implement solutions and solve for business needs in high stress environments. My soft skills and leadership abilities have enabled me to impact change across organizations, stretching beyond my direct influence and allowing me to push for positive changes. My passion for software engineering has allowed me to grow and learn rapidly, while also helping more junior members of my teams grow in similar ways.

I've worked on numerous side projects, including my own ~30,000 user web application, independent contracting, and contributing to open source projects. I'm a fast learner, capable of quickly integrating into teams and learning their associated business systems. I'm also a big picture thinker which allows me to design and implement independent, scalable, fault tolerant systems, which are capable of evolving with business needs.

Experience

Present

Senior Software Engineer

Intuit

November 2020 - Present

Java (SpringBoot), Handlebars, React, GraphQL, JIRA, AWS, Kubernetes, Docker, Splunk

- Took over and drove a project that had stalled for 2 years, delivering a first version of the product, and re-designing the overall architecture in a way that allowed for incremental design improvements and emphasized scalability, performance, fault tolerance, and modularity.
- Built a microservice and front end library to handle large volumes of smaller requests, reducing the amount of requests to a legacy monolith application by over 45%.
- Identified a bottleneck for a monolithic service that was causing multiple load-related failures. Worked with a partner team to fix the issue, and extract the logic into a microservice to prevent further service disruptions.
- Improved monitoring and logging of a legacy monolith application, improving overall visibility into application and its behavior, and reducing time to detect and resolve multiple types of incidents, some by 50% or more.
- Implemented multiple performance improvements to a legacy monolith application, reducing incidents in multiple areas to 0 (through jitter, caching, circuit breakers), improving readability through linting and code style enforcement, and upgrading the underlying framework to a supported version.
- Built a chat bot to handle some more complicated parts of release management for a legacy monolith application, significantly reducing the amount of effort required to validate releases, and improving overall developer satisfaction.
- Taught a team the ins and outs of the OAuth2 flow, and worked with them to ensure that our new implementation followed all best practices.

PHP (Laravel), Python (Django), Javascript (jQuery/React), Typescript, Bash, MySQL, JIRA, AWS, Docker, Webpack, Npm

- Built and implemented centralized OAuth2 server for multiple in-house applications, improving overall security and simplifying user management.
- Implemented and improved deployment pipelines with the help of DevOps, decreasing overall deployment times and enabling developers to deploy code themselves.
- Implemented agile development across multiple teams, ensuring cross-team functionality.
- Mentored Jr and Sr developers alike, encouraging scalability and best practices.
- Instituted regular implementation/Code Reviews, improving overall code quality.
- Worked with QA to re-design, implement, and improve test suites, reducing build time and overall application defects.

PHP (Laravel), Python (Django), Javascript (jQuery/React), Bash, MySQL, JIRA, AWS, Docker, Webpack, Npm, Vagrant

- Implemented Webpack/React into a legacy application, setting the standards and groundwork for implementing new features, and refactoring existing functionality using React, instead of jQuery.
- Built a testing framework for a legacy PHP application, allowing implementation of feature testing and unit testing. I then drove the effort to improve code coverage to more than 45%.
- Implemented numerous security/sustainability focused code and process improvements, hardening the application and improving developer appeal.
- Assisted in project management, driving forward many critical, time sensitive features
- Mentored and managed multiple jr developers, encouraging career development and assisting in feature delivery.

PHP (Symfony), Javascript (jQuery/React), Bash, MySQL, Webpack, Yarn, Azure

- Modernized an application with React, improving usability, feature turnaround time, and drastically improving application performance.
- Completely redesigned multiple UIs, improving application usability, and scalability.
- Set up application deployment, and deployment pipeline, with documentation for future scalability.

PHP (Zend/Symfony), Python, Javascript (jQuery), Bash, MySQL, Webpack, SIP, JIRA, Zendesk, PRTG, SNMP, Loggly, Vagrant, Salt Stack

- Built an internal routing system, allowing the company to save \$50,000 in monthly recurring costs.
- Redesigned a deployment pipeline for voice soft-switches, allowing us to perform automated no downtime deployments.
- Lead an education effort amongst multiple teams of engineers, encouraging the teams to further their careers, and grow their craft.

PHP (Zend), PHP (Symfony), Javascript, Bash, MySQL, SIP, JIRA, Zendesk, PRTG, SNMP, Wireshark

- Led a team in designing, building, and maintaining VoIP systems capable of handling 1 billion calls/month.
- Designed multiple rating and routing algorithms, allowing us to optimize our call routing engines, increasing our wholesale call revenue by nearly 100%.
- Built multiple reporting and analysis tools, allowing my team to monitor our voice network and fix voice and call routing issues before they affected customers.
- Built an intranet application with a set of more than 40 tools and features, improving the ability of operations, support, and accounting to perform their jobs, and obviating additional hiring.
- Mentored a group of engineers in troubleshooting, software development, and soft skills.
- Built an internal support/morale/account tools, improving overall productivity.
- Created customer training, support, and process documentation reducing ticket volume and average ticket resolution.

Past

References available on request

Senior Software Engineer

StepStone Group

Jan 2020 - November 2020

Software Engineer II

StepStone Group

Dec 2018 - Dec 2019

Software Developer

Independent Contractor

Nov 2017 - Mar 2019

Software Developer / DevOps

Voxox (TelCentris Inc.)

Jan 2017 - Dec 2018

Director of Voice Operations / Software Developer

Voxox (TelCentris Inc.)

Mar 2014 - Jan 2017