

Overview

Experienced software engineer with a proven track record in designing and developing scalable and stable applications using a wide array of languages and technologies. With a background in startups, I've developed a unique ability to navigate uncertain environments and deliver results

Experience

2022-Current **Senior Software Engineer, Bench Accounting, Remote**

- Designed and developed business critical services on AWS using but not limited to Lambda, DynamoDB, SQS, Kinesis, TypeScript, Python and Docker
- Automated business processes leveraging LLMs, greatly reducing operational costs and manual effort
- Reduced costs, profiled and improved performance of services deployed on AWS, reducing service response times from 30 seconds to 1 second
- Improved build tooling, transitioning from Jenkins and CircleCI to GitHub Actions, reducing cost and build times
- Contributed to migration from a distributed monolith to cloud based architecture, reducing coupling between teams and increasing velocity
- Mentored developers across multiple teams, directly contributing to developer growth

2022-2022 **Team Lead & Senior Software Engineer, Block 64, Remote**

- Lead a R&D team of 5 developers
- Spearheaded development process improvements, resulting in a measurable reduction of production bugs and increase of velocity
- Made critical architectural decisions and developed a strategy for transition from legacy to modern platform without impact to business
- Have seen projects through from design to development and into years of maintenance
- Took charge in mentorship of developers, promoting professional growth and development of a T shaped skillset
- Facilitated communications between development, support and sales teams, balancing long and short term business goals

2020-2022 **Senior Software Engineer, Block 64, Remote**

- Designed and developed a series of mission critical, high throughput user facing applications deployed on millions of machines worldwide using C, C# and C++
- Laid groundwork to strangling and migrating a monolith legacy service to a scalable, containerized instance
- Set up automated CI/CD pipelines using Octopus Deploy, Azure DevOps
- Designed and developed ETL processes, substantially reducing data load times
- Greatly reduced the amount of production issues by finding and fixing memory leaks, poorly optimized algorithms, security issues and problems related to interactions with third party firmware and software using dotTrace, Wireshark, OWASP ZAP and miscellaneous profiling tools
- Took charge of planning and migrating away from legacy codebases, significantly reducing the amount of technical debt and increasing velocity
- Interviewed, on-boarded and provided mentorship to software developers

2018-2020 **Software Engineer, Block 64, Toronto**

- Took charge of laying down groundwork for unit and integration testing frameworks
- Promoted good development practices - introduced code reviews and Agile practices to the development team
- Introduced the concept of Docker and containers to the team, laying groundwork for scalable software deployments
- Designed and developed cross platform user facing applications using C# , Python, PHP, JQuery and MySQL
- Designed and developed containerized services and APIs using Python backed by Redis and MySQL
- Performed complex query optimization on large datasets, resulting in sharp improvements to runtime performance
- Performed performance and memory optimization of production applications

2014–2018 **Software Engineer**, *Encycle*, Toronto

- Designed and developed a wide array of proprietary software, kernel drivers, OS and tooling for a next generation of an embedded system used for energy management.
- Primary languages: C, C# , Java, Python, Bash
- Led knowledge sharing workshops in order to promote team member cross-functionality

2013–2014 **Support Analyst / Developer**, *Encycle*, Toronto

- Diagnosed and resolved a wide array of software, firmware and hardware issues, primarily using SQL, Python, C# and Bash
- Created BI reports for the operations team, using SQL and Python

Education

2013 **Advanced Diploma in Computer Engineering with Honors**, *Humber College*, GPA 4.0
WHMIS Certified

Personal projects

Software

- Website monitoring software used for tracking, parsing and sending out notifications on new posts using Python and SQLite
- System metrics collector, collecting temperature, RAM and CPU statistics using Python, Bash and InfluxDB
- Traffic monitor collecting, submitting and plotting data in real time using ER-X APIs, web sockets and InfluxDB
- Tool to bulk edit and delete social media posts written with NodeJs and TypeScript

Hardware

- WIFI enabled, battery powered, energy efficient embedded device collecting and sending environmental data to Linux server using MQTT and InfluxDB, graphing data in Graphite and Grafana
- Battery powered, energy efficient embedded device collecting and sending environmental data to Android phone through Bluetooth, using Android application to display data graphs
- Portable, high power, battery powered induction heater

Personal interests

Software Development: I enjoy learning about and exploring technologies I don't get a chance to use at work, as well as writing tools to make my life easier

Endurance Sports: I love running and biking. I'm currently building up my endurance to run a marathon. I also ski and mountain bike when I can

Misc: I have two dogs, with whom I love hiking, camping and running with