Frank Bagherzadeh

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Experience

Software Engineer (Infrastructure) 🏢 *Tulip Retail Inc.* 📍 **Toronto, Ontario**   September 2019 - Present

• Building and maintaining Tulip's infrastructure services, High-Performance REST/GRPC API, designed in Go.
• Current project owner for receipt management service and helped to increase performance by 80%.
• Responsible for maintaining Kubernetes clusters and tenants on GCP using Terraform and Gitlab's CI/CD.
• Developed tools for Customer Support department to speed up their workflow and eliminate technical challenges.

Software Engineer Intern (Core Platform) 🏢 *Geotab Inc.* 📍 **Oakville, Ontario**   May 2019 - September 2019

• Developed and maintained multi-threaded software using .NET Core and Postgres for high-volume GPS data.
• Optimised memory utilisation and multi-threaded error handling, leading to performance increase by 200%.
• Queried and analysed server performance and statistics using BigQuery and Grafana for debugging purposes.

Owner and Operator 🏢 *Alu-Ref Technology Ltd.* 📍 **Toronto, Ontario**   August 2017 - May 2019

• Fulfilling B2B contracts by fixing phones and computers with software/hardware issues on a weekly basis.
• Developed an app for incoming/outgoing devices and inventory management using Go and React.
• Developed and implemented a scheduler and increased refurbishment pipeline flow by 150%.

Software/Hardware Technician 🏢 *iRepair.ca and Fixt Wireless* 📍 **Toronto, Ontario**   June 2015 - April 2019

• Diagnosed and Fixed phones and computers with software and hardware issues.
• Networked in the phone repair industry and utilised the info/connections during the operation of my business.

Education

B.Sc. Hon. Computer Science 🎓 *Ryerson University*   September 2017 - December 2020

• Deans List for 3 consecutive years (2017-2019), 3.8/4 GPA, Entrance Scholarship valued $2000.
• Relevant Coursework: Data Structures and Advanced Algorithms, Computer Vision, Software Engineering, Advanced Database Systems, Artificial Intelligence, and Machine Learning.

Projects

cv-gen ⚙ *Go, Postgres, GRPC, React*   May 2020

• Developed a resume builder app based on jsonResume schema using Go in a test driven development style.
• Full API support (REST/GRPC) with data storage, on-the-fly resume generation and ability to add hooks.

Voter.io ⚙ *Go, Kubernetes, Libsodium, React*   September 2019 - October 2019

• Created a fully encrypted and anonymous voting platform that stores signed voting data similar to a blockchain.
• Developed a UI using React to read voter QR codes, take votes and streamed live results with a millisecond delay.

Mini Home Cluster ⚙ *Kubernetes, Docker, Raspberry Pi*   November 2018

• Created an 8 node Raspberry Pi Kubernetes cluster and deployed services such as gitlab, bitwarden, and OpenVPN in addition to hosting my personal and school projects to test and demo.
• Main purpose of this project was to familiarise myself with deploying and maintaining infrastructure and services.

Skills

🗄 **Languages**   • Go, Python, C, C++, Java, Bash, SQL, C#, TypeScript/JavaScript, PHP, Assembly

🚀 **Frameworks/Libraries**   • Node.js, React, Angular, Django, Pandas, TensorFlow, Libsodium, OpenSSL, OpenCV

🐧 **Tools/Services**   • GCP, Kubernetes, Docker, Terraform, Kafka, Redis, Istio, Git, GNU/Linux