COLIN CHUNG

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Education

University of Waterloo
Bachelor of Applied Science in Computer Engineering | September 2018 – April 2023

Experience

ContextLogic / Wish
Software Engineer | January 2022 – April 2022
- Built backend for an anti-fraud web application using Go, Python, GraphQL and gRPC, **tracking metrics on all production users** and **optimizing business process for detecting fraud**.
- Configured a role-based security framework and authentication following the OAuth2.0 standard, **increasing security** and **streamlining workflow**.
- Designed new MongoDB schema to remove expensive data aggregations, **reducing bottlenecks** in peak hours and **decreasing the average RPC round trip time** from 10-15 seconds per request to under 1 second.

BDO Canada LLP
Full-Stack Microsoft Developer | May 2020 – August 2020, January 2021 – April 2021
- Developed profitability modelling, Workday Inc. integration and audit trails for a resource management application in .NET, Angular and SQL, **optimizing scheduling across 50% of BDO departments**.
- Designed database schemas, developed API and proxy services using the ABP Framework and implemented a role-based security framework for a customer facing data tracking application, **automating business practices** and **tracking critical data** on machines and work sites.
- Designed and developed an automated email service used for sending monthly invoices to all clients, reducing the duration of the process from **several days to under 20 minutes**.

SPS Commerce
Associate Software Engineer | January 2019 – April 2019
- Optimized and refactored data-processing and data-validation functionality in C# and SQL, decreasing runtime by **over 50%** and **removing the need to schedule jobs during off hours**.
- Upgraded three applications to support newer frameworks and automating their functionality using AWS ECS, **improving maintainability and scalability** and **strengthening inbound security rules**.

Projects

EcoFrost Heating and Cooling
Technical Lead | December 2020 - Present | View Website
- Created the company website for a local HVAC business using React.js, Node.js, TailwindCSS, AWS and Netlify, **increasing the number of generated jobs by over 20%.**
- Conducted several rounds of **search engine optimization** including server-side rendering, mobile responsiveness and performance, keyword manipulation and registration with Google Business.

Home Watch
Hack The North | September 2019 | View GitHub
- Created a home monitoring and security system using cameras to notify users of unknown vehicles and people approaching their home.
- Developed a cross-platform mobile application using React Native and Firebase which provides updates on home status in real-time.

Technical Skills

Languages: Golang, C#, C/C++, Java, Python, SQL, JavaScript, TypeScript

Frameworks: .NET Core, Hadoop, Spark, Thrift, Kafka, gRPC, Angular 7, React, Node.js, TailwindCSS

Other Technologies: Amazon Web Services, Docker, MongoDB, GraphQL