

Full-Stack Software Engineer with expertise in designing and scaling SaaS platforms, specializing in cloud infrastructure, DevOps, and distributed systems. Skilled in Kubernetes, TypeScript, and CI/CD automation, seeking to drive scalability, reliability and innovation in modern applications.

WORK EXPERIENCE

Software Applications Engineer II @ HP Vancouver

June 2022 – Present

- Built Node.js microservices with REST APIs powering a SaaS management plane for **10000+** remote desktops.
- Engineered a custom Kubernetes operator to dynamically scale globally available remote desktop tunnelling "gateways" based on a bespoke PID algorithm, **optimizing resilience and scalability by over 50%**.
- Maintained Infrastructure-as-Code with Terraform, Helm and Jsonnet to manage Dockerized microservices on Azure Kubernetes Service, **reducing deploy times by ~66%**.
- Architected new system features and coordinated cross-team delivery for **10+ developers** by driving backlog prioritization, ensuring features were shipped on time according to SAFe PI Objectives.
- Participated in weekly **on-call rotations**, monitoring and diagnosing any production incidents using observability dashboards (Datadog, SumoLogic), and implementing fixes that ensured the system maintained **99.99% SLA uptime**.
- Automated legacy customer support processes by designing CI/CD workflows and scripting API integrations that **improved incident response time by ~75%** and simplified and documented the process to be customer-friendly.

Full-Stack Programmer @ UBC

April 2020 – April 2022

- Developed a holistic extra-credit website using Angular and Django REST Framework, adhering to Agile and Scrum development processes, that was to be used by **100+** first-year students.
- Increased productivity of unit test generation by **~393% (\$55,000 saved in salary costs)** by creating a domain-specific open-source JUnit5 Testing library.

EDUCATION

University of British Columbia

B.A. Hons. in Computer Science | **GPA: 94.8%**

Awards: Head of Graduating Class Medal for highest GPA in the faculty. Over \$150K total received from the International Major Entrance Scholarship, the Dean's List for 3 years, and 3 International Student Faculty Awards.

PROJECTS

Bytesized - E-commerce platform (*Express for Node.js, GCP, Docker*)

Built a Dockerized e-commerce platform using Express, Google Cloud SQL and Cloud Run, implementing CI/CD workflows (Github Actions) that automated deployments.

Educational Video Recommendation System (*Angular, Django*)

Architected a recommendation system that analyzed student performance metrics from a programming practice platform to deliver personalized video recommendations, improving engagement and overall practice quality.

SKILLS

Languages: TypeScript, JavaScript, Python, Bash, Java, SQL, C++, CUDA

Infrastructure: Docker, Kubernetes, Microsoft Azure, Terraform, Helm, Datadog, TeamCity, Github Actions, Vercel, GCP, AWS

Backend: Node.js, Express, MongoDB, Django, REST APIs, Redis, Kafka, HiveMQ MQTT

Frontend: Next.js, React Native, Angular, Redux, TailwindCSS, SASS