Justin Ang

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Education

Simon Fraser University **August 2019 – April 2024**
Bachelor of Science in Computer Science and Business Administration *Burnaby, British Columbia*

Technical Skills

Languages: TypeScript, JavaScript, Python, Java, Go, Rust, Scala, C, C++, SQL, HCL, HTML, CSS
Frameworks: Spring Boot, React.js, Vue.js, Next.js, Nuxt.js, Node.js, Express, Flask
Developer Tools: Git, Kubernetes, Docker, Terraform, GitHub Actions, Jenkins, ArgoCD, Helm
Cloud Platforms: AWS, Azure, GCP

Experience

Samsung Electronics **September 2023 – April 2024**
Cloud DevOps Engineer Co-op *Vancouver, British Columbia*

- Spearheaded the development of an **ArgoCD** extension that integrates **Jenkins** and **ArgoCD** using **React.js** and **TypeScript**, therefore improving **Kubernetes** deployment efficiencies and team productivity.
- Developed multi-region **Kubernetes** clusters on **Azure** using **Terraform**, enhancing multi-cloud initiatives and improving infrastructure robustness.
- Integrated Karpenter with **ArgoCD** and **Terraform** to improve service stability on **Kubernetes** in **AWS**, significantly reducing system disruptions and Java/JVM-based microservice downtime.
- Collaborated closely with a global team to architect and configure the new **Azure** cloud environment, swiftly **adapting** to evolving architectural requirements, therefore ensuring **production readiness** and high availability

CaseIT 2024 Case Competition **June 2023 – February 2024**
Director of Web Development & Technology *Vancouver, British Columbia*

- Spearheaded the development of CaseIT's websites using **Next.js**, **React.js**, **Hugo**, and **SCSS**, ensuring an engaging and user-friendly online presence.
- Worked closely with non-technical team members to ensure technology solutions aligned with CaseIT's vision and goal.

FORM Swim **January 2022 – September 2022**
Software Development Engineer Co-op *Vancouver, British Columbia*

- Developed **end-to-end** embedded software testing suites using **Python** and Jenkins, from requirements definition to deployment, reducing manual testing efforts by 50%.
- Created comprehensive **API** and mobile app test suites using **Python**, Appium, and **Postman**, which were instrumental in FORM Swim's receiving the Best Swim Product 2023 award.
- Provided **mentorship** and support to new team members, enhancing their understanding of the team's tech stack and procedures, enabling an easier transition into the new role.

Projects

Haiti Hospital Platform | *Express, React.js, TypeScript, MongoDB, Docker, Grafana, AWS* **January 2024 - April 2024**

- Led the **end-to-end** development of a hospital management platform for Hope Health Action (HHA) as **product owner**, from stakeholder engagement to configuring the observability tools and environment for production.
- Developed the frontend and backend of the platform, significantly improving operational efficiency, user experience, and customer value for HHA.

intelliGEN | *HTML, CSS, JavaScript, Node.js, Express, React.js, ChatGPT, MongoDB, GCP* **May 2023**

- Developed a web application that generates quizzes from a PDF file, enhancing student learning experiences.
- Collaborated with my teammate to integrate the backend with **GCP Cloud Vision** and GPT-3.5 API to extract text from uploaded PDFs stored in **GCP Cloud Storage** before passing them to GPT-3.5 to generate quizzes.

Hocus Focus | *Java, Spring Boot, SQL, PostgreSQL HTML, CSS, JavaScript* **May 2021 - July 2021**

- Led the development of a performance-tracking productivity timer full-stack application.
- Overcame the technical hurdle of implementing the chat feature in the application using **WebSockets**, empowering users to connect and communicate with each other.

Rush Hour Solver | *Java* **March 2021 - April 2021**

- Designed a modular, flexible **object-oriented architecture** for a Rush Hour puzzle solver, enhancing code maintainability and reusability.
- Implemented the **Depth-first search (DFS) algorithm** to solve the Rush Hour Puzzle efficiently, optimizing memory usage by minimizing excessive branching.