

Christopher Albert Tan

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Education

Simon Fraser University

B.S. Computing Science in Software Systems

Vancouver, Canada

May. 2022 - Dec. 2025

Work Experience

Samsung Electronics

Cloud DevOps Engineer Co-op

Vancouver, Canada

May. 2024 - Dec. 2024

- Leveraged **Terraform** to efficiently destroy legacy **Amazon EKS** clusters and migrate workloads to a newer environment, ensuring no downtime by maintaining network components
- Mitigated cross-AZ traffic between pods in **Amazon EKS**, reducing the cluster cost by over **90%**
- Supported **production deployment** of Spark using **Terraform**, monitoring rollout through **ArgoCD**
- Developed POC applications for different **Keycloak** installations on a local cluster using **Minikube**
- Provisioned **Karpenter** using **Helm charts** to automate and scale Kubernetes node management
- Implemented **RBAC** in Airflow using **Python** to enforce access control based on IAM roles
- Built a **GitHub Actions** pipeline to automate Trivy scans and deploy apps to **Amazon EKS**
- Optimized log ingestion pipeline in **Elasticsearch** by filtering out unnecessary log search efficiency

BCGov, Cloud Services Branch

DevOps Specialist Co-op

Victoria, Canada

May. 2023 - Dec. 2023

- Dockerized and templated a MERN app on the Kubernetes-based platform, Openshift
- Created a **CI/CD pipeline** using **Tekton** to onboard developers learning **Openshift**
- Simplified CRUD functionality for Red Hat's ACS through **Ansible Playbook scripts**
- Designed a **multi-stage Dockerfile** and a CI pipeline to automate image builds
- Developed a registry app using **Next.js** and **TypeScript** to visualize services across environments
- Created an API endpoint by utilizing Axios to facilitate sending emails that uses react-emails

Langara College

Teaching Assistant

Burnaby, Canada

Sep. 2022 - Apr. 2023

- Responsible for marking students taking Algorithms and Data Structures in Langara College
- Created a rename-and-unzipper script in **Python**, organizing file submissions to ease in marking

Projects

Homelab

| Kubernetes, Helm | ○

Oct 2025

- Designed a **Kubernetes** cluster in a homelab environment to run containerized workloads with K3S
- Managed deployments using **ArgoCD** and **Helm** for declarative, version-controlled GitOps workflows
- Set up Traefik ingress with Cloudflare Tunnel to route external traffic to self-hosted services

MERN Checklist

| MongoDB, Express.js, React, Node.js | ○

May 2024

- Developed a **full-stack** Post-Sharing application that supports **CRUD functionality** using Next.js 13
- Integrated **MongoDB** to store user-generated content and provide seamless presentation to users
- Utilized **Docker Compose** to containerize the application and deployed it to **Openshift**

Anon-Forum

| Next.js, Tailwind, MongoDB | ○

Jan 2024

- Developed a **full-stack** Post-Sharing application that supports **CRUD functionality** using **Next.js 13**
- Integrated **MongoDB** to store user-generated content and provide seamless presentation to users

Organization

SFU Indonesian Association

Webmaster

Burnaby, Canada

Aug. 2022 - July. 2024

- Collaborated in a team to deploy a full-stack website using Next.js and Bootstrap components
- Created an events calendar to dynamically showcase ongoing and past events to improve visibility

Technical Skills

Language: C++, C, Python, TypeScript, JavaScript, Java, SQL

Technologies: Kubernetes, Terraform, Docker, Helm, Ansible Playbook, ArgoCD, Git, Linux, AWS