Christopher Tan

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TECHNICAL SKILLS

Languages: Javascript, HTML/CSS, MySQL, C/C++, Java, Kotlin, Python, PHP, Haskell, Assembly
Frameworks: TypeScript, React, Next.js, Node.js, EJS, Bootstrap, Jest, Tekton
Developer Tools: Git, Github Actions, XAMPP, Android Studio, Ansible Playbook, Docker, Kubernetes

WORK EXPERIENCE

Junior DevOps Specialist   May 2023 - Present
BCGov, DevOps and Cloud Services Branch, Platform Admin Team
- **Dockerized** and templatized a **MERN** app on the **Kubernetes**-based platform, **Openshift**
- Created a **CI/CD pipeline** using **Tekton** to enhance the onboarding process of developers learning Openshift
- Simplified CRUD functionality for Red Hat's ACS through **Ansible Playbook scripts**
- Contributed to the development of a **Next.js 13**-based application serving as a government application registry

Teaching Assistant   Aug 2022 - Apr 2023
Langara College, Department of Computer Science
- Responsible for marking assignments of students taking the Algorithms and Data Structures course in Langara
- Streamlined the process of organizing file submissions by creating a **rename-and-unzipper script** using **Python**

PROJECTS

Anon-Forum | *Next.js, Tailwind, MongoDB* — 🔗   Sep 2023
- Developed a **full-stack** Post-Sharing application that supports **CRUD functionality** using **Next.js 13**
- Implemented robust user authentication using **Google NextAuth** to ensure a secure user experience
- Built a robust backend that encorporates **RESTful API** endpoints to support **CRUD functionality**
- Integrated **MongoDB** to store user-generated content and leveraged it to provide seamless presentation to users

Readinglist | *React, Javascript* — 🔗, 🐙   Jan 2023
- Deployed a mobile-responsive website that allows users to organize manga titles by utilizing the **Jikan API**
- Optimized component communication by implementing **Global Context** using React's **Context API**
- Designed a seamless system for storing entries using **localStorage** and **React Hooks** to set and get items

CShell | *C, Linux/Unix* — 🐙   Oct 2022
- Created a CLI that closely emulates a Linux command line by utilizing **forks** and **system calls**
- Used forks to properly distribute work between parent and child processes
- Formulated an efficient method for listing files and directories in a file system by using **system calls** and recursion

Weatherly | *EJS, Jest, Node.js, Heroku* — 🐙   Apr 2021
- Launched a weather application that interacts with an external **API** and hosted it on **Heroku**
- Designed a robust **CI/CD pipeline** through **Github Actions** to run test cases made in **Jest**
- Used the **Prototyping** model and leveraged **Github Issues** to provide a framework for the development process

ORGANIZATION

Webmaster   Aug 2022 - Present
SFU Indonesian Association, SFUIA | Next.js, Bootstrap — 🔗, 🐙
- Collaborated in a team of 3 to deploy a **Full-Stack website** SFUIA, using **Next.js** with **Bootstrap** components
- Effectively managed the creation of the project by using an **Agile** approach and utilizing a **Kanban Board**

EDUCATION

Simon Fraser University
Bachelor of Science, Computing in Software Systems   *Expected Dec 2024*
Langara College
Associate's in Science, Computer Science   *Aug 2020 - May 2022*