

# WILLIAM SURYAWIDJAJA

Full-Stack Software Developer, Junior Computer Scientist @ UBC

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## Technical Skills

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**Languages:** Java, Python, SQL, JavaScript, TypeScript, C++, HTML/CSS, Docker, Go

**Technologies:** React.JS, React Native, MongoDB, Flask, Django, FastAPI, Cypress, JUnit, Kubernetes, Linux, Git

## Experience

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### Rainforest Automation

September 2021 – April 2022

*Software Developer*

*Vancouver, BC*

- Utilized the **React.JS** framework with **Redux** to design dynamic user interfaces for the Rainforest Web Portal.
- Developed automated front-end testing using the **Cypress** Python Framework, and automated UNIX device maintenance checks using Python's **Fabric** Library.
- Created **Python** scripts to automate RestAPI requests.
- Provided customer support to UNIX devices through bash scripts and XML commands.

### UBC Launchpad, Software Engineering Design Team

September 2021 – Present

*Software Developer*

*Vancouver, BC*

- Collaborated with a group of developers to design a full-stack mobile application, targeted at helping University students save money by visualizing spending patterns and setting monthly budgets. The application is called "Ledge-it".
- Attended weekly Scrum discussions in an Agile-based team.

### UBC UAS (Unmanned Aircraft Systems), Engineering Design Team

September 2021 – Present

*Software Developer*

*Vancouver, BC*

- Developed a WebSocket connection using the Flask Python Framework and the Python Socket-IO library for client-server communication of aircraft and ground control.
- Containerized a micro-service through the use of Docker.

## Projects

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### Ledge-it (Personal) | *TypeScript, React Native, Python, FastAPI, MongoDB, OAuth2*

September 2021 - Present

- Implemented a RestAPI using the **FastAPI** Python framework, to quickly deploy and document numerous endpoints.
- Stored all user information into a **MongoDB** database. Separated user data into different collections for ease of access.
- Developed a user-friendly interactive mobile application using **React Native**. Used Axios to make HTTP requests to the RestAPI Backend.
- Added a layer of security to the application by utilizing **OAuth2** to verify user credentials.

### Personal Portfolio Website (Personal) | *React.JS, TailwindCSS, Sanity.io*

November - December 2021

- Designed a responsive portfolio website using **React.JS** and **TailwindCSS** for the styling.
- Incorporated a headless Content Management System through **Sanity Studio** to make the website more easily scalable.

### Solari (Hackathon) | *HackOR | Java, JavaFX, SQLite*

March 2021

- Headed a group of developers to devise a web application in **Java**, targeted to help connect volunteers with event organizers, using Object-Oriented principles. Implemented a minimalistic UI using JavaFX.
- Utilized database normalization techniques to construct a relational database in **SQLite**.

### HealthierU (Personal) | *Go, React.JS, Docker, MongoDB*

December 2020 - February 2021

- Built a REST API using the Gin **GoLang** framework that returns processed user information from the database in the form of JSON payloads.
- Designed a multi-paged web application using React.JS, complete with tables and diagrams for weekly progress visualization.
- Improved compatibility in different user environments by applying **Docker** to containerize the RestAPI.
- Stored all user information into separate **MongoDB** collections.

## Education

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### The University of British Columbia

Sep. 2019 – May 2023

*BSc. Major in Computer Science, Minor in Data Science, GPA: 3.9/4.0*

*Vancouver, BC*

- Dean's List (2020)