

Charles Ancheta

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PROGRAMMING SKILLS

- **Languages:** JavaScript/**TypeScript**, Lua, Go, Rust, Python, C, C++, Java, Bash, SQL, HTML, CSS
- **Frameworks/Technologies:** Node.js, Express.js, NestJS, Firebase, React, Redux, Next.js, React Native, Android Studio

EXPERIENCE

- **Industry Sandbox and AI Computing** Edmonton, AB
Software Engineer *April 2021 - Present*
 - Developing "VM on Demand", a full-stack web application from scratch that provisions virtual private servers to clients using the OpenStack platform.
 - Leading a small team and working in pair-programming contexts to provide insight about the existing codebase and development workflow to new members.
 - Writing functional-style code for the frontend with React and Redux.
 - Writing object-oriented code for the application server using NestJS.
- Network and Systems Analyst* *January 2021 - April 2021*
 - Deployed Drupal websites to dedicated Linux web servers and updated website content.
 - Installed and configured software for internal use.
 - Provided clear documentation on the steps taken on installing and configuring servers.
 - Developed deployment automation scripts in Bash.

PROJECTS

- **Hello Habits**
Mobile App — School Project — GitHub: github.com/CMPUT301F21T44/HelloHabits *November 2021*
 - A Habit Tracking app that can help users build good habits and learn about other users' habit building journey. Built with Java 8 and Android Studio.
 - Led the weekly sprints and stand-ups alongside managing the project with GitHub projects.
 - Implemented the application's data models for Firebase Firestore and Firebase Cloud Storage for images.
 - Developed the application's screen navigation using modern Android Development APIs.
- **UP BRAIN BY 2%!!!**
Web App — Devpost: devpost.com/software/up-brain-by-2 — GitHub: github.com/thyckcorgis/up-brain-by-2 *May 2021*
 - A simple web application incorporating multiple different technologies. Receive a mental health boost with a motivational message. Mental Health Hacks 2021 Winner.
 - Set up Cassandra database, Firebase authentication, and Linode deployment.
 - Implemented the API routes the Next.js application to connect to the database and for authentication.
- **Water App**
Mobile App — Devpost: devpost.com/software/wapp — GitHub: github.com/thyckcorgis/wapp *February 2021*
 - Logging app for water intake. Incorporates competition with friends for accountability and consistency. Receive notifications when you need to drink to ensure you reach your daily water intake goal. HackBU 2021 Winner.
 - Created the entire Express.js backend connected to MongoDB, including setting up notifications with the Expo Push Notification Tool.
 - Assisted group-mates with React Native and Node development environment setup.

EDUCATION

- **University of Alberta** Edmonton, AB
B.S. Computer Engineering Co-op - GPA: 3.5 *September 2018 - April 2023*
 - **Courses:** Algorithms and Data Structures, File and Database Management, Computer Interfacing, Object-Oriented Software, Operating Systems Concepts