

Alston D'mello

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EDUCATION

University of Waterloo | Bachelor of Computer Science (Hons)

Sep 2021 – Apr 2026

GPA: 4.0. One of 10 students to receive the Faculty of Mathematics Global Scholarship

TECHNICAL SKILLS

Languages Python, JavaScript, TypeScript, C, C++, C#, Java, HTML, CSS, SQL, Bash

Frameworks and Libraries React, NodeJS, Express, Flutter, GatsbyJS, Android SDK

Tools MongoDB, MySQL, Firebase, Git, Android Studio, Unity, Figma

EXPERIENCE

Slingshot | Software Development Engineer

Oct 2021 – Present

- Designed & implemented new signup, login, student onboarding, student profile & company's job listings pages using **React & Figma**.
- Integrated end-to-end testing using **Cypress** covering half the codebase saving **4 hours** of manual testing a week
- Devised an automated company data extraction and mass outreach system using **Puppeteer** and **Apollo**, **doubling** the rate of company sign ups
- Increased student engagement by adding "Open Source Challenges" to the platform for which students had to submit projects implementing the specified features
- Refactored the website to use routing instead of handling state to keep track of pages
- Implemented **HuggingFace** and **Spacy** NLP models to extract required skills from job postings

FullCircle | Software Engineer Intern

Jun 2021 – Aug 2021

- Wrote **Firebase** Cloud Functions using **NodeTS/Express** that communicated with the Firestore database
- Built the UI for the app using **Flutter** and connected to the backend via HTTP requests to the API endpoints
- Created an "Experience Feed" that allowed users to post/like/comment on real-life experiences
- Created a Flutter app from scratch that involved sending anonymous texts using **Email2SMS Gateway**
- Developed Discord bots in **Python** to increase user engagement, leading to **20% increase** in monthly active users

PROJECTS

Workout Tracker | Flutter, SQLite

A mobile app that allows users to track their workouts (specifically bodyweight workouts) with ease.

TypeTile *3rd place in UW CS Club's Project Program competition* | JavaScript, Express, PassportJS

A piano tiles inspired game to help users practice their typing skills. Users can create accounts, play 4 different game modes, check all-time leaderboards, and track their typing improvement.

Side Project Ideas | MongoDB, Express, React, Node

A web app that allows users to create accounts and post side project ideas for those who lack inspiration.

Climb | C#, Unity

An Android game with simple controls, in which a player must climb up a building without clicking in the wrong direction. Self-taught Unity and C# for its development and self-designed all in-game graphics.

Cricket Career Stats Tracker | Java, SQLite, XML, Android Studio

An Android app, with over **10,000 downloads**, that helps cricketers track the stats from all their matches and stores it in a SQLite database.

Course Central | Python, MySQL, PyQt

A Python program that stores details of online courses from different websites in one place and makes finding relevant online course easy with sort and search functionality.