Trevor Flanigan

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EXPERIENCE

Tesla
Fremont, CA

Software Engineer — *Aug. 2023 – May. 2024*

- Saved **$4M annually** by integrating existing hardware into new timekeeping system, eliminating hardware costs
- Decreased kiosk queue times 30% using computer vision and **machine learning** for facial recognition
- Achieved **2000% throughput increase** by conducting performance tests and optimizing **MySQL** queries
- Migrated two Gigafactories and 80,000+ employees to new timekeeping system
- Developed **Electron/Express/React Native** kiosk and mobile app for 35,000+ employee users

Arista Networks
Vancouver, BC

Software Engineer Intern — *May 2022 – Sep. 2022*

- Increased developer productivity by building internal tools in **Go, Python, and TypeScript**
- Created internet router simulator supporting 2000+ concurrent devices for **load testing**
- Automated configuration issue detection/correction by constructing Python linter integrated with **Jenkins CI**

AWS Cloud Innovation Centre
Vancouver, BC

Cloud Solutions Developer — *Jan. 2021 – Apr. 2022*

- Delivered rapid prototypes to Canadian health/safety companies using AWS Amplify, Lambda, Cognito, S3
- Enabled remote medical expertise for first responders via **React/WebRTC** video call application
- Visualized 100 GB+ census data donor insights using keras and D3.js in an interactive map
- Facilitated student prototype completion through AWS Lambda, DynamoDB, Amplify mentorship
- Enhanced student knowledge via technical presentations on AWS CloudFormation, CDK, git.

Meetable
Vancouver, BC

Engineering Lead — *Jun. 2020 – Mar. 2022*

- Led engineering for a product that rapidly grew to **over 500 users** within one week of launch
- Engineered a robust **AWS** backend system and provided comprehensive training to junior engineers
- Orchestrated front-end development, building chat, friend-matching quiz, and core UI elements

EDUCATION

University of British Columbia
Vancouver, BC

Bachelor of Applied Science in Computer Engineering with Distinction **(GPA: 4.10/4.33)** — *Sep. 2018 – May 2023*

- Trek Excellence Award (**Top 5% of APSC Undergraduates**)

PROJECTS

Neesh (LGBTQ+ Forum) | *AWS, React Native, Expo*

- Led 5-developer team in designing/building mobile app using AWS, Expo, and React Native
- Transformed client's **Figma** prototype into fully-featured application and uploaded to **Apple App Store**
- Ensured product alignment with client expectations through weekly meetings and standard reviews
- Secured 1st place among 50 projects in UBC APSC Capstone Competition

StoryShare (Online Story Marketplace) | *Google Cloud Platform, React, Tailwind, Stripe*

- Led a team of 5 developers building a site for writers to sell stories
- Performed automated user experience reviews using **Hotjar** and **Google Analytics**

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C/C++, C#, Java, Python, Go, MySQL, HTML, CSS
Frameworks: React, React Native, Android Studio, Express, Django, TailwindCSS, Vue, Unity, OpenAPI
Developer Tools: Git, Docker, Jenkins, Google Cloud Platform, vim, VS Code, AWS CloudFormation, Kubernetes
Libraries: React Query, TypeORM, three.js, D3.js, matplotlib, numpy, pandas, scikit-learn