

Trevor Flanigan

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EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Applied Science in Computer Engineering with Distinction (GPA: 4.10)

Sep. 2018 – May 2023

- Trek Excellence Scholarship (Top 5% of Undergraduates)
- Capstone Faculty Award - 1st Place in Computer Engineering Capstone Competition

EXPERIENCE

Tesla

Fremont, CA

Software Engineer

Aug. 2023 – Present

- Designed platform integrating existing hardware into new internal timekeeping system, saving **\$4 million** annually
- Developed admin dashboard for monitoring of timekeeping devices in **React** and **Node.js**
- Conducted performance tests and optimized **MySQL** database queries, achieving **2000%** increase in throughput
- Onboarded two factories to new timekeeping system, supporting **80,000+ employees** and **200 transactions/sec**
- Developed employee-facing kiosk and mobile app for 35,000+ users using **Electron**, **Express**, and **React Native**

Arista Networks

Vancouver, BC

Software Engineer Intern

May 2022 – Sep. 2022

- Built internal tools in **Go**, **Python** and **TypeScript** to increase developer productivity
- Created IP router simulation service supporting **2000+ concurrent devices** for load tests and local development
- Constructed linter in **Python** and integrated with **Jenkins CI** to automatically detect and fix config issues during deployment

UBC, AWS Cloud Innovation Centre

Vancouver, BC

Student Mentor

Sep. 2021 – Apr. 2022

- Mentored students in **AWS Lambda**, **DynamoDB**, and **AWS Amplify**, helping them deliver open source prototypes to clients
- Delivered technical presentations to students on best practices in **AWS CloudFormation**, **AWS CDK**, and **git**
- Hosted office hours for incoming student developers

Student Developer

Jan. 2021 – Sep. 2021

- Utilized **AWS Amplify**, **AWS Lambda**, **Cognito**, **S3**, and other **AWS services** to produce solutions delivered to Canadian health and safety companies
- Developed **React** video call application with **WebRTC**, providing emergency responders remote medical expertise
- Engineered interactive map displaying insights for over **1 million rows** of census data using **React** and **D3.js**

SecureKey Technologies, Inc.

Toronto, ON

Software Engineer Intern

May 2020 – Dec. 2020

- Built **React** and **Node.js** wallet for verifying digital credentials, presented to demonstrate use cases for digital ID
- Upgraded protocols in existing software, improving transaction security and becoming **blockchain** agnostic

PROJECTS

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**

Meetable (UBC Social Network) | AWS, React Native, Flutter, Project Management

- Organized collaboration between personal project and UBC Launchpad, mentoring 10 intermediate developers in **AWS**, **React Native**, and **TypeScript** building a UBC social media application to connect during COVID-19
- Completed 2 Phases of **entrepreneurship@ubc**, awarded **\$2000** for **Top 3** placement in Youth Impact Challenge
- Managed **AWS IAM**, **Single Sign-On (AWS SSO)**, **AWS Amplify**, and **Firebase** accounts of developers
- Received over **500 signups** from UBC Students at launch

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