

Amogh Joshi

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science

- *Dean's List*; Cumulative GPA: 86.6%; Major GPA: 88.6%

Vancouver, BC

Aug. 2019 – April 2024

EXPERIENCE

Amazon Web Services (AWS)

Software Development Engineering Intern

May 2022 – August 2022

Vancouver, BC

- Reduced customer **development time** by **66x** by transitioning API from synchronous to asynchronous using AWS Step Functions and AWS Lambda functions in TypeScript
- Saved customers **\$17,650 yearly** through designing and proposing new infrastructure changes to existing API
- Showed initiative by proposing and designing new notification system, decreasing customer API calls by **23%**
- **Decreased future development** time by **26%** by modularizing current workflow using AWS Lambda functions written in Java

Safe Software

Software Development Intern

January 2022 – April 2022

Vancouver, BC

- Migrated existing dashboard page from Angular and AngularJS and launched it to over **200 customers**
- Decreased page **load time by 100 milliseconds** due to refactoring page to Angular 8 from AngularJS
- Achieved **0% test failure** for the first time by fixing existing issues and inconsistencies
- Increased **code coverage by over 8%** through implementation of new end to end tests utilizing Cypress.io

University of British Columbia

Software Developer Intern

May 2021 – September 2021

Vancouver, BC

- **Awarded competitive NSERC USRA student grant** to develop *distplyr*, and open source statistical analysis package for R.
- **Automated creation** of new statistical distributions and increased new types of distributions by **100%** using input/output processing.
- Reduced **styling errors** by **20%** and **build errors** by **16%** through creation of new linting and compiling CI/CD pipeline using Github Actions
- **Grew code resiliency by 10%** through increasing regression and unit testing using testthat and covr

PROJECTS

Neighbouri | *React Native, Firebase, Stripe, React Native Geolocation*

January 2021 – April 2021

- Mobile application created to sell homemade food to neighbours using React Native.
- **Slashed user clicks** by geolocating user position to show potential sellers around their physical location using React Native Geolocation
- Constructed an automated payment workflow to charge, validate, and store transaction information using **Stripe API, GCP Cloud Functions, and Firebase**.
- Implemented **messaging chat** for communication between customers and sellers using Firebase Database querying.

Video Calling Website | *React, Redux, WebRTC, Web Sockets*

September 2020 – January 2021

- Built a fully featured **customer login and authentication workflow** with **multiple sign-in options** made with Firebase Auth.
- Engineered a free, decentralized **video calling and text chat** service utilizing web sockets for user communications

TECHNICAL SKILLS

Languages: Javascript/TypeScript, Java, Python, R, C/C++, Golang, HTML, CSS, SQL, Git, \LaTeX

Frontend Frameworks: React, React Native, Redux, Angular, AngularJS, Material-UI, Java Swing

Backend Technologies: Node.js, Express, AWS, PostgreSQL, Flask, GCP, Firebase

Other: Git, Docker, Github Actions, Web Sockets, JUnit, Mockito, Mocha, Cypress.io, TidyVerse