

Scarlet Nguyen

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Programming Language Proficiency: Java, Javascript, Python, Scala, Racket

Tool Proficiency: React & React Native, Firebase, Node.js, Express.js, MongoDB, Git

EDUCATION

University of British Columbia | B.Sc. | Major in Computer Science

Sept 2019 - June 2023

EXPERIENCE

Google - STEP Software Developer Intern

May 2020 - August 2020

- Deployed to Google Cloud Platform an interactive web app that performs language analysis on a large-scale database (Firestore) of political advertisement data and display visualizations:
 - Parallelized and optimized the scraping process of 500,000 advertisement contents, which saved more than 120 hours of work overall
 - Implemented a search engine using Algolia Search Engine and Cloud Functions in Java
 - Researched big data and generated visualizations with React and Victory.js
 - Built a sentiment analysis server in Flask (Python) that provides a Sentiment Analysis API that allows users to create, analyze and compare custom advertisement with similar results in the past
- Led and guided 2 other interns through several new technologies during the internship, including React, Microservice concepts, Test Driven Development approach, and SCRUM practices
- Wrote 3 design documentation for both individual and group project plannings
- Designed and implemented a personal portfolio web app with complex microservice architecture such as Authentication and live-chat with Socket.IO from scratch

Hootsuite - High School Software Developer Intern

June 2019 - August 2019

- Implemented banners for Facebook Public Launch using React v.16.9
- Worked on Scala microservices and API endpoints for @mention feature in Inbox
- Database Improvement: restructured the double-storing message data and saved ~125-150 GB of memory in the database
- Solved 3 customer-impact bugs that significantly improved the SLOs by over 20%
- Refactored 714 performance and code style errors in GraphQL in the duration of the last 2 days

Hootsuite - High School Software Developer Intern

July 2018 - September 2018

- First female being accepted since the program first started in the last 4 years
- First student being offered an extended internship as a part-time position

- Designed and developed an internationalization service from scratch using Scala and Play framework
- Threaded user data parameters and unified data storage among objects in GraphQL
- Developed a new repository managing the user's data and API calls to SCUM (Social Communication Service)
- Performance Improvement: implemented the Proxy pattern and two types of cache (in-memory and decentralized)

ACHIEVEMENTS

1st Place School Programming Team Challenge 2018 - Tech Lead

- Managed a team of 10 novices given an unknown programming problem
- Outperformed other teams by distributed tasks for each member clearly and achieving the shortest solving time

1st Place Women in Tech Activation Hackathon 2018 - Tech Lead

- Prototyped a platform that helps high school students connect with professional mentors in different industries based on matching interests
- Managed and guided a team of 6 adults throughout the design and development process

1st Place InnoHacks 2018

- Created and distributed sustainable hygiene supply package through recycled plastic waste material 3D printers

PROJECTS

OneStep Shipping - Logistic Startup

April 2020 - Current

- A SaaS website that:
 - Allows clients (companies) to pick appropriate schedule, fill out Booking/BOL forms and keep track of their shipment orders
 - Allows admins to handle orders from client in real time, send out new messages or notifications and generate customized confirmation PDFs
- Implemented using React for frontend, Node.js for backend, GraphQL for middleman layer and MongoDB for database

Bulldog Software - Churchill School App

March 2019 - July 2019

- Usage: my secondary school needed a general-communication app for all parties such as the school administrators, teachers, students and parents
- App components: a complex system composed of 2 parts:
 - An agenda app for students built with React Native and Firebase
 - A notification sender website for the counselors and school administrators built with Node.js and Express.js