

Sam Ip

CS+Stats Major | sam.qj.ip@gmail.com | sam-ip.github.io | linkedin.com/in/sam-qj-ip | Canadian Citizen

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, R

Technologies/Tools: AWS, React, Redux, Git, Linux, Firebase, MongoDB, Node.js, Express, Jenkins, Docker

Amazon Web Services Certifications: Solutions Architect - Associate, Cloud Practitioner

WORK EXPERIENCE

SAP Jan 2020 - Present
Cloud Operations Engineer Intern
Vancouver, BC

AWS, Python, Jenkins, Docker

- Created a Jenkins job automating the process of generating high CPU dumps for production database systems reducing the overall time of root cause analysis by 30%
- Conduct root cause analysis for client and service failures to maintain 99.5%+ service availability
- Partner with global development teams to design and enhance services

UBC Mobile Health Research Group Aug 2019 - Dec 2019
Junior Software Developer (Part-time)
Vancouver, BC

Flask, TypeScript, AWS

- Developed a minimum viable product utilizing sentiment analysis and topic modeling to analyze 20+ gigabytes of time series patient-doctor conversational data throughout the treatment process
- Migrated application to AWS to automate the deployment process using CodePipeline

UBC Department of Statistics Aug 2019 - Dec 2019
Undergraduate Teaching Assistant (Part-time)
Vancouver, BC

- Designed lecture activities for 300+ students in an introductory statistics class (STAT 200)
- Independently coordinated labs of 30+ students and supervised discussion forums
- Proficient in confidence intervals, analysis of variance, statistical inference, and linear regression

TECHNICAL PROJECTS

CourseFlo, <https://github.com/CourseFlo/Flo>

MongoDB, Express, React, Node.js, Heroku

- Deployed a web application to provide a better course viewing experience to UBC students
- Implemented an in-house caching system for faster visualization of course information

Badminton Social, <https://github.com/sam-ip/Badminton-Social>

React, Redux, Firebase, Express

- Built a web app for badminton players to share recent global badminton events
- Implemented a REST API backend to handle user requests on the platform

Predicting Chronic Kidney Disease in Patients, <https://github.com/sam-ip/CKDPredictor>

R, Jupyter

- Generated an algorithm with 100% test accuracy predicting whether 400+ new and existing patients have Chronic Kidney disease

EDUCATION

University of British Columbia Sep 2018 - Present
BSc Computer Science and Statistics | 3.8 / 4.33 GPA | Expected Graduation April 2022
Vancouver BC

COMMUNITY INVOLVEMENT

Microsoft TEALS Philanthropies Jun 2019 - Present
Volunteer Instructor

- Teach CS fundamental concepts and create lecture and lab modules using the SNAP programming language for an online class for 20+ indigenous students in rural communities