Sam Ip

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

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, Java, R
Technologies: React, Jupyter, Git, AWS Certified Solutions Architect, Firebase (Google Cloud Platform)

WORK EXPERIENCE

SAP Jan 2020 - Present
CloudOps Engineer Intern Vancouver, BC

- Create and improve automation for testing, deployment, scalability, management, and visibility of services for the product using Jenkins, Terraform
- Conduct root cause analysis for service failures and implement continuous improvements to maintain high availability
- Partnering with global development teams to onboard new services on AliCloud

UBC Mobile Health Research Group Aug 2019 - Dec 2019
Junior Full Stack Developer Vancouver, BC

- Developed minimum viable product (MVP) which uses sentiment analysis and topic modelling to analyze patient-doctor conversational data throughout the treatment process
- Migrated application to AWS to automate the deployment process using CodePipeline
- Helped redesign the architecture by containerizing all microservices

UBC Department of Statistics Aug 2019 - Dec 2019
Undergraduate Teaching Assistant Vancouver, BC

- Organize lecture activities for 300+ students for an introductory statistics class (STAT 200)
- Independently administer labs of 30+ students, supervised discussion forums
- Knowledgeable in hypothesis testing, confidence intervals, and analysis of variance

PROJECTS

Badminton Social, https://badminton-social.firebaseapp.com/

- Created a web app for badminton players to share and socialize about recent global badminton events using JavaScript, Express and React
- Designed a REST API backend and database using Express and Firebase to handle user requests on the platform
- Designed front-end to incorporate data persistence and state management with React-Redux

Predicting Chronic Kidney Disease in Patients, https://nbviewer.jupyter.org/CKDPredictor

- Trained a classification algorithm (Knn) with 100% prediction accuracy on open source hospital data from India to determine whether new and existing patients have Chronic Kidney disease
- Created a formal report using R and Jupyter to visualize results obtained from classification
- Cleaned, modeled, trained and forecasted data using Dplyr, ggplot, caret, and GGally libraries

EDUCATION

University of British Columbia Sep 2018 - Apr 2022
BSc Computer Science and Statistics | 3.9 GPA Vancouver BC

COMMUNITY INVOLVEMENT

Microsoft TEALS Philanthropies Jun 2019 - Present
Volunteer Instructor

- Teaching and creating lecture modules for a distance-education class for 20+ indigenous students in rural communities
- Conduct interactive lab activities using SNAP programming language