

Sam Ip

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TECHNICAL SKILLS

* Currently Learning

- **Programming:** TypeScript, Java, Python*, C++
- **Frameworks/Libraries:** Node.js, React, Flask*, AngularJS*
- **Analytics:** R, Jupyter, SAP Analytics Cloud, Stanford CoreNLP
- **Cloud/Infrastructure:** Google Cloud Firestore, AWS Certified Cloud Practitioner

WORK EXPERIENCE

CloudOps Engineer Intern, SAP Analytics Cloud team Jan 2020 - Present

- Create and improve automation for testing, deployment, scalability, management, and visibility of services for the product
- Conduct root cause analysis for service failures and implement continuous improvements
- Partner with local product development team to design and automate service deployments

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

- Developing MVP of Smart Text Analytical Tools (STAT) utilizing NLP to analyze patient needs from patient-doctor conversational data
- Training NLP model to provide sentiment analysis and topic modelling of conversation data
- Implementing full-stack using Angular, Flask, AWS (Elastic Beanstalk)

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

- Organize lecture activities for 300+ students for an introductory statistics class (STAT 200)
- Independently administer labs of 30+ students, supervised discussion forums
- Mark 600+ assignments and exams in an organized and timely manner

PROJECTS

Badminton Social, <https://badminton-social.firebaseio.com/> May 2019 - Jul 2019

- Built full stack web application using Firebase, JavaScript, Express and React to create a platform for badminton users to share and socialize about recent global badminton events
- Designed front-end using the Material-UI library and persisted user data using React
- Constructed REST API backend and database using Firebase handling user requests and data

Prediction Analysis of Kidney Disease, <https://nbviewer.jupyter.org/CKDPredictor> Mar 2019 - Apr 2019

- 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
- Used modern libraries Dplyr, ggplot, caret, and GGally to clean, model, train and analyze data

EDUCATION

University of British Columbia, Vancouver Canada Sep 2018 - Present

BSc Computer Science & Statistics | GPA 3.9/4.33 | Dean's Honor List | Expected Graduation 2022

VOLUNTEER AND COMMUNITY INVOLVEMENT

Instructor, Microsoft TEALS Philanthropies, Vancouver, Canada Jun 2019 - Present

- Create lecture modules meeting needs of 20+ indigenous students in rural communities
- Conduct interactive lab activities using SNAP programming language

Executive Member, UBC Badminton Club Sep 2018 - Present

- Help create online forms and spreadsheets to sign/pair up 100+ members for club events
- Create and advertise events engaging more than 1000 people on social media