Samar Sajnani

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Experience

IBM Watson Data Platform Private Cloud Intern **May. 2017 – Aug.2018**

- Approximately 1300+ contributions on IBM's enterprise GitHub
- Won an award for DSX poster presentation and a CrushIT award for the ICP4D Installer
- Lead developer in the ICP4D installer, a new product that made $12 million in 6 months
- Led the effort to create JDBC and HDFS functions used to obtain dataframes in Python, R, and Scala
- Optimized CI/CD time by 50%+: created an automated framework for provisioning, installing and testing

Computer Science Teaching Assistant (First-Year Web Development Course) **Jan. – Apr. 2019**

- Motivated students by providing topical links to new technologies and their uses in computer science
- Responsible for marking approximately 50 students assignments and providing feedback

Research

Empirical Study of a Policy and POJO-based Reconfiguration System for the Cloud **Sept. 2018 – Apr. 2019**

- Utilized the Kubernetes Java API as a metamodel to generate a POJO-based model of the cluster
- Modified the Kubernetes source code to implement custom policies that can trigger reconfiguration actions

Optimization of a Fluorescence-Based Cancer Biosensor (Biochemistry Thesis) **May. – Aug. 2014**

- Dr. David Litchfield, the chair of the Biochemistry Department, directed the research project
- Majority of the work was cloning, protein extraction, and fluorescence microscopy

Skills

Cloud Computing: Knowledge of the inner workings of Kubernetes, Docker, Ansible and GlusterFS

Linux: In-depth analysis of repositories, research on disk usage, logging, scripting, and creating installer executables

Application Development: Many of my projects are web, desktop or mobile applications using JavaScript

Innovation: 3D Hologram Snake – Created a game using the peppers' ghost illusion (Harvard University)

Projects

FaStack Mobile and Desktop Application **Mar. 2018 – Present**

- Daily stack that allows users to context switch and prioritize daily tasks
- Using React Native to create the mobile application and Electron for the desktop application

Life Vector Time-Management Mobile Application (Western University) **Nov. 2016 – Present**

- An application that takes location data and computes vectors based on a persons' home location

Education

BSc Honours Specialization in Computer Science - Western University **Expected 2019**

- 3.95 out of 4.0 Computer Science Grade Point Average

BMSc Honours Specialization in Biochemistry – Western University (3.6 GPA) **Received 2016**

Advanced Courses - AI II, Internet Algorithmics, Advanced Methods for Biochemistry