SAM FENG

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Coquitlam, BC

SKILLS

Software: Python, MATLAB, C#, C++, R
Web: React, Node.js, MySQL, HTML/CSS
Tools: Git, JIRA, Balsamiq, OmniGraffle, InVision

WORK EXPERIENCE

Software Engineer
May – Aug 2019

Athos – Redwood City, California

- Created REST API specifications to identify potential design improvements and flaws for new endpoints
- Developed and maintained REST APIs utilized for accessing biometric data
- Automated internal processes for customer requests, reducing time required to support customers by 50%
- Utilized Datadog to provide log aggregation and created dashboards to efficiently monitor logs
- Proposed and implemented MySQL database changes to improve internal processes and data access
- Configured Jenkins pipelines for continuous testing and deployment of backend services and applications

Solution Architect
Jan – Apr 2019

Cognite AS – Oslo, Norway

- Facilitated discussions between development teams and clients to define and integrate unique, tailored software solutions focused on data ingestion to drive efficient adoption of Cognite's products and services
- Developed and deployed solutions digitalizing industrial data on Google Cloud Engine utilizing Python and Java
- Consolidated and transferred data from various sources securely using REST APIs and Python scripts
- Translated customer requirements into technical definitions, optimizing platform integration for customers

Research Trainee in Computational Medicine
May – Aug 2018

The Hospital for Sick Children – Toronto, Ontario

- Created a Dockerized web application with React and Node.js to display and visualize genomic data
- Identified client requirements and designed UI for application using Balsamiq and prototype with InVision
- Wrote Bash scripts to perform MRI-based connectivity analysis utilizing high performance computing clusters
- Developed Python scripts to facilitate import of longitudinal data into SQL databases

Medical Device Software Developer
Sept – Dec 2017

Intellijoint Surgical – Waterloo, Ontario

- Developed and refactored a web application utilizing JavaScript (JQuery and FabricJS), Django, and Bootstrap to assist surgeons in pre-operatively planning total hip arthroplasty
- Participated in interviews with surgeons to adapt features after releasing application as an alpha prototype
- Conducted comprehensive unit testing and functional testing for software releases of intellijointHIP

PROJECTS

Research Assistant
Sept – Dec 2018

Vision and Imaging Processing Lab – Waterloo, Ontario

- Performed data cleaning and statistical analysis with Python to predict patterns of microcystin concentration
- Developed a Python-based application utilizing Dash and plot.ly to allow interaction with data visualizations

Freezing of Gait Detector
Nov – Dec 2016

- Designed an IMU-enabled wearable device to detect and prevent freezing of gait in Parkinson's patients

EDUCATION

University of Waterloo
Sept 2015 – Apr 2020

- Candidate for Bachelor of Applied Science in Biomedical Engineering