JAEMIN SUNG

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EDUCATION

Georgia Institute of Technology | Atlanta, GA | 08/2010 - 05/2015
B.S. in Biomedical Engineering & Computer Science (double major)
GPA: 3.69/4.00

WORK EXPERIENCE

Software Engineer @ Capital One| McLean, VA | July 2015 - Present
Served three different roles through a 2-year rotational software engineering program:
- o Developed a backend micro-service framework that aligned with Capital One's vision of leveraging cloud-agnostic open-source technologies
- o Built a Continuous-Integration & Continuous-Deployment (CICD) pipeline to enable Capital One to migrate its on-premises applications to Amazon Web Services (AWS)
- o Engineered a cutting-edge monitoring solution for an enterprise-wise streaming data platform to better track real-time transactions in credit card and other applications

Led the development of two proof-of-concept projects using machine learning:
- o Stock market prediction: built a machine learning model using deep learning (TensorFlow) to predict long-term prices of individual stocks and ETFs with 60-70% accuracy
- o Automated document data extraction: used open-source Optical Character Recognition (OCR) and ML libraries to extract data from financial documents

RESEARCH EXPERIENCE

Comparative Neuromechanics Laboratory, Georgia Institute of Technology
Undergraduate Research Assistant (Advisor: Dr. Christopher Hovorka) | 04/2012 - 08/2013
- o Authored MATLAB programs that perform signal processing analysis on electromyography (EMG) data from lower limb muscles to describe changes in motor output induced by a novel ankle-foot orthotic device
- o Participated in human subject trials in an instrumented gait laboratory by collecting EMG and kinematics data through multiple hardware systems

CERTIFICATIONS & AWARDS

AWS Certified Developer – Associate | 11/2016
AWS Certified Solutions Architect – Associate | 04/2016
Georgia Tech President's Undergraduate Research Award | Spring 2013

SKILLS

Java, Python, MATLAB, Scikit-Learn, TensorFlow, AngularJS, ReactJS, Spring Framework, Apache Kafka, MongoDB, Apache Spark, Ansible, Terraform, AWS

ACTIVITIES

Volunteer @ Capital One Coders | Annandale, VA | 09/2016 – 05/2017
Taught local middle school students how to make an Android mobile app using MIT App Inventor 2

Tech Consultant @ Rise | Washington, D.C. | 05/2016 – 04/2017
Led statistical analysis research and web development for Rise, a national civil rights nonprofit that works with state legislatures and U.S. Congress to implement legal measures to protect sexual assault survivors