

Takezo Johnson

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Education

Northeastern University | B.Sc. in Computer Engineering

Boston, MA

GPA: 3.35/4.0

Dec 2020

Honors: Dean's List, Ujima Global Leader (Merit Scholarship)

Coursework: Computer Systems, Computer Architecture, Embedded Design, Algorithms and Data Structures, Fundamentals of Networks, Object-Oriented Programming, Digital Design and Computer Organization

Technical Skills

Languages: Python, Java, Scala, Golang, C++

Tools/Technologies: Git, Linux/Unix, AWS, Spark SQL, Tensorflow, Keras, Pandas, OpenCV

Work Experience

Amazon

Seattle, WA (remote)

SDE Intern

May 2020 - July 2020

- Migrated machine learning system to Native AWS and modularized pipeline to improve efficiency and flexibility
- Utilized CloudFormation's infrastructure-as-code to create Glue Crawlers and Jobs in Scala to get and preprocess data from S3 to feed into machine learning model
- Wrote metrics to CloudWatch and setup a dashboard to display key statistics

Goldman Sachs

New York, NY

Engineering Analyst Intern

Jan 2020 - April 2020

- Built a machine learning model using TensorFlow to predict expected durations of background tasks on trading risk platform
- Performed data analysis to build and test models and automated retraining cycle to gather new data from ElasticSearch and update the model being used in production
- Created a Flask REST service that runs the model and leveraged Vert.x to get predictions from Java codebase to display results on Risk Status Page

SAP

Walldorf, Germany

Software Engineering Intern

May 2019 - Aug 2019

- Implemented a mountable encryption layer using AES-GCM algorithm in Go for a file system driver in Linux user space
- Researched encryption algorithms and learned Go quickly by reviewing existing code and testing ideas
- Collaborated with team to test and ensure compatibility of encryption with compression mount across cloud platforms

Projects

Musical Robot Arm

- Configured digital circuits in Simulink to program FPGA on ZedBoard to accurately control robotic arm
- Wrote code in C++ for arm to pick up mallet and play various songs on a xylophone based on user input
- Integrated Bluetooth to control arm movement with acceleration values and button presses from Wiimote

Facial Recognition Smart Door

- Led new teammates to plan, code, and present finished product in under 24 hours for BostonHacks 2018
- Programmed an app which implements cascade classifier in Python using OpenCV to open door using facial recognition
- Incorporated Twilio API to send customized mobile alerts depending on successful or failed unlock attempt

Skills & Interests

Languages: English (Native), Japanese (Native), German (Intermediate)

Interests: Investing/Trading, Photography, Skateboarding, Travel