POUYA TAVAKOLI

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Career Experience

ENGINEER 1| SAMSUNG AUSTIN SEMICONDUCTOR | DECEMBER 2019

· Migrated parts of our web applications to our internal cloud system, and utilized technologies such as AWS S3 as part of our migration.
· Created internal web applications such as wafer map generator using Django, HTML, and JS.
· Created internal recipe commonality finder that is used by at least 100 techs and engineers daily Django, HTML, and JS.
· Went through the process of talking to customers (engineers and techs within the department) to pinpoint areas of frustration and inefficiencies to create applications to make their day to day easier.
· Created dashboards (using Python and Spotfire) for engineers and management to get a better visual of data within the factory.
· Created Python scripts to email out to engineers when certain events happen within the fab process.

ENGINEERING INTERN | SAMSUNG AUSTIN SEMICONDUCTOR | JUNE 2019 – AUGUST 2019

· Implemented a Rest API for an internal website using Django Rest Framework
· Created a Machine Learning algorithm that would cluster different wafers that were damage based on image composition using Python

Education

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING | GPA: 3.70/4.0
MINOR IN MATHEMATICS, COMPUTER SCIENCE | UNIVERSITY OF OKLAHOMA

Robotics Teams

SOFTWARE DEVELOPER | ROBOTICS | AUGUST 2017 – DECEMBER 2019

· Implemented lane detection algorithm for autonomous robot in Python using a basic camera
· Implemented computer vision in Python to a raspberry pi so it can detect what letter is on a block

Capstone

SOFTWARE DEVELOPER | CAPSTONE | AUGUST 2019 – DECEMBER 2019

· Using Kotlin created an Android app that connects to a custom hardware sensor that is provided by a professor
· Implementing Bluetooth Low Energy for device communication between the android app and sensor

Skills

PROGRAMMING LANGUAGES AND SOFTWARE

· Java, C++, Kotlin, Python, Django, SQL, JavaScript
· ROS, Ubuntu, Microsoft Azure, AWS S3, git, Jira