

# POUYA TAVAKOLI

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## Career Experience

### SDE II | EXPEDIA GROUP | DECEMBER 2021

- Migrated customer applications to a new Kubernetes-based cloud platform.
- Expanding features to, new, internal API for cloud deployments using Go and Kubernetes
- Simplified deployment process and bubble up better error messaging to customers by developing a Kubernetes Operator.
- Simplified user deployments by designing CRDs
- Reduced Kubernetes deployments by 66%, resulting in a reduction in infrastructure costs
- Built out new EKS clusters as customers joined onto the new platform

### ENGINEER 1 | SAMSUNG AUSTIN SEMICONDUCTOR | DECEMBER 2019 – DECEMBER 2021

- 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 with 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 for engineers and management to get a better visual of data within the factory using Python and Spotfire

### 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 | UNIVERSITY OF OKLAHOMA | DEC 2019

## 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

- Python, Django, SQL, JavaScript, Go
- AWS, git, Jira, Kubernetes, Docker, Spinnaker, Helm, ArgoCD