



# Mike Zhen

Software Engineer

## Personal Info

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## Experience

Jul 2016 –  
present

### Software Engineer

Capital One

Cloud Architecture

- Led discovery and deep dive sessions to facilitate knowledge transfers from application experts to cloud migration teams
- Design and solution for application migrations into the cloud based on gathered information for technology and business constraints
- Socialized cloud solutions to teams and helped remove technical roadblocks towards the proposed design through various proof-of-concepts

Internet of Things

- Led team with 3 summer interns for new Internet of Things (IoT) project, as technical lead and project manager to build proof of concept
- Team built commercial supply management simulation using dash button to relay messages and control ShieldBot through AWS IoT platform
- Wrote Lambda functions in Python to process and transfer sensor data to simulation server and database

Jul 2015 –  
Jul 2016

### Associate Software Engineer

Capital One

Cloud Governance

- Wrote Python scripts to encrypt all data at rest across all environment for EBS, RDS, S3 resources in order to reach data security compliance with regulators
- Repurposed scripts into AWS Lambda functions to maintain 100% data encryption, which was later incorporated into internal compliance engine
- Educated organization on right-sizing cloud resources to minimize cloud operational costs

Full-stack Development

- Developed MEAN stack web application as internal solution from ground-up: data transformation and load into MongoDB, AngularJS frontend design with open source themes, as well as REST API development on Express framework
- Setup code approval process on GitHub and automated application deployment using Jenkins upon approval to master branch



## Education

Aug 2011 –  
May 2015

### University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Engineering



## Summary

Software engineer with hands-on experience in full-stack development utilizing MEAN technologies and AWS cloud solutions. Supportive and enthusiastic team player dedicated to streamlining processes and efficiently resolving project issues.



## Skills

Amazon Web Services

Python

Git

Angular

Node.js

MongoDB

Docker

Jenkins

Terraform

Ansible