

# Spencer Huang

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## SUMMARY

High-performing software engineer with a passion for artificial intelligence and cloud services. 1.5 years of industry experience impacting positive organizational outcomes through curiosity, adaptability, and creativity. Confident in ability to collaborate with cross-functional teams to solve complex, high-stakes problems. Committed to continuous improvement and contributing to team success.

## EDUCATION

**Master of Information Systems Management, Managing AI and Robotics**  
**Bachelor of Science, Applied Computing**

**Carnegie Mellon University**  
**Allegheny College**

## TECHNICAL SKILLS

**Programming Languages** Python, Java, JavaScript

**Frameworks/Libraries** Tensorflow, Keras, SciKit Learn, PyTorch, HaasCascade, Django, Flask, React

**ML/AI** Neural Network, Linear Regression, Natural Language Processing

**Databases** MySQL, PostgreSQL

**Operations** Ansible, Docker, Nginx, Terraform, Jenkins, Kubernetes

**Monitoring** Wavefront, Zabbix, Nagios

**Amazon Web Services** EC2, RDS, SQS, Elasticsearch

## EXPERIENCE AND KEY ACCOMPLISHMENTS

### **Groupon**

#### **Software Engineer II**

**Jan 2022 - Present**

- Pioneered efforts for migrating our internal tool from on-premise onto Kubernetes with Docker
- Reduced 50% of project infrastructure costs by migrating on-premise servers to new AWS EC2 and RDS instances
- Implemented/Integrated a SOX compliance bot with Slack and an internal reporting tool for new internal services
- Engineered a prototype from scratch for a new internal tool using microservices for scalability
- Defined new monitoring pipeline which reduced debug time by 40%

#### **Systems Engineering Intern**

**May 2021 - Aug 2021**

- Performed database performance testing through creation of PostgreSQL Amazon RDS instances
- Expedited the time needed for employees to gain access to resources through overhauling a UI/UX redesign of an internal tool using Flask and jQuery
- Produced documentation for all pain points and the development process related to the internal tool to ease transition for future engineers

### **C&IB Innovations Team at PNC Bank**

#### **Software Engineering Intern**

**June 2020 - Aug 2020**

- Accelerated the time it takes to extract information from legal documents by 2 folds from developing and training a learning model using LexNLP and spaCy
- Shortened the time it takes to model for legal documents in the future by converting generic datasets to tailored datasets
- Implemented various prototype models for data extraction based on previous and ongoing researches which creates a basis for multiple possible research/development areas

### **Eanovation Home Remodeling Platform**

#### **Full Stack Development Intern**

**March 2019 - Aug 2019**

- Increased traffic by 30% through rebuilding the UI for the company's website
- Improved user experience through enhancement/creation of user functionalities

## PROJECTS

### **Workout Simulator**

**Fall 2021**

- Developed a GUI based workout simulator using object oriented programming
- Established confidence in code functionality through JUNIT testing

### **Smile Detector**

**Spring 2019**

- Designed a tool that detects smiles through webcam using OpenCV
- Trained model using haarcascade data file, shortening time needed to develop initial prototype
- Enabled ease of access to results through the usage of Dropbox API