

Spencer Huang

(724) 732 - 4299 | spencerhuang.netlify.com | spencerhuang147@gmail.com

EDUCATION

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

Carnegie Mellon University
Allegheny College

WORK EXPERIENCE

Software Engineer II, Groupon

Jan 2022 - Jan 2023

- **[containerization]** Led a team of engineers to migrate an internal tool onto Kubernetes with Docker increasing availability of the tool by 100%
- **[aws cloud]** Reduced 50% of project infrastructure costs by migrating on-premise servers to new AWS EC2 and RDS instances
- **[integration]** Implemented/Integrated a SOX compliance bot with Slack and an internal reporting tool
- **[scalability]** Engineered prototype from scratch for a new internal tool using microservices for scalability
- **[monitorization]** Defined new monitoring pipeline reducing debug time by 40%

Systems Engineering Intern, Groupon

May - Aug 2021

- **[performance enhancement]** Performed database testing through creation of PostgreSQL AWS RDS instances
- **[UI/UX]** 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
- **[documentation]** Produced documentation for all pain points and the development process related to the internal tool to ease transition for future engineers

Software Engineer Intern, C&IB Innovations Team at PNC Bank

June - Aug 2020

- **[nlp]** 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
- **[data analysis]** Shortened the time it takes to model for legal documents in the future by converting generic datasets to tailored datasets
- **[applied machine learning]** Implemented various prototype models for data extraction based on previous and ongoing researches which creates a basis for multiple possible research/development areas

Full Stack Developer Intern, Eanovation (*start-up home remodeling platform*)

March - Aug 2019

- **[web design]** Increased traffic by 30% through rebuilding the UI for the company's website
 - **[web development]** Improved user experience through enhancement/creation of user functionalities
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PROJECT EXPERIENCE

[java | testing] Workout Simulator

- Developed a GUI based workout simulator using object oriented programming
- Used JUNIT testing suite to establish confidence in code functionality

[python | pip] Tada! auTomAtic orDer-of-growth Analysis

- Designed an tool that systematically finds worse-case time complexity for arbitrary Python functions
- Published the open-source tool onto PyPi

[python | api] Smile Detector

- Produced a tool that detects smiles through webcam using OpenCV, storing results with Dropbox API
 - Trained model using haarcascade data file, shortening time needed to develop initial prototype
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TECHNICAL SKILLS

Languages Python, Java, JavaScript, HTML

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

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