Jianming Zeng

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EDUCATION

Georgia Institute of Technology, Atlanta   Aug 2012 - Jun 2017

B.S. in Computer Science

PROFESSIONAL EXPERIENCE

Sanus Solutions, Atlanta - Co-Founder & Software Engineer   Fall 2017 - Present

- Built and designed a product to help combat hospital acquired infections by improving hand hygiene.
- Conducted dozens of customer discoveries before development to make sure product would be user-oriented.
- Led a development team of 5 by organizing meetings, and coordinated product manager and engineers.
- Developed a **RESTful** API server for a facial recognition IoT network in a healthcare environment with **Python, Flask and Gunicorn**.
- Deployed service infrastructure utilizing **Docker** container, Tensorflow Serving, and **AWS** Rekognition at production scale.
- Built **IoT** network nodes using Raspberry-pi and various sensors as well as soldered various electronic components and wires to pcb.
- **Stress tested** server to meet production standard of at least 20 transactions per second with tools such as Jmeter.
- Regularly collected feedback from users and hospital staff to improve product usability.
- More info on www.sanussolutions.com

InitialView, Beijing - Software Developer Intern   Dec 2018 - May 2019

- Implemented an image editing tool in vue.js for staff to quickly resize, crop, and redact sensitive information from clients.
- Implemented an image processing tool(**natural language processing**) which utilizes tesseract-ocr to recognize text in a passport/ID in several supported languages and sensitive information such as barcode and photo.
- Combined the new image processing service with InitialView Django backend so that all client uploaded sensitive documents were filtered before storing into the database.

PrimeRevenue , Atlanta - Software Developer Intern   Jan 2017 - May 2017

- Developed a web application for internal manager to schedule and display system maintenance notifications on PrimeRevenue website with Node.js. Users and staff of PrimeRevenue were able to know exactly when and for how long the server will be down for maintenance.
- Used **AngularJS** and **Spring Boot** and followed **Agile** principles on designing, developing, testing, and documenting the web application.

Georgia Tech Damage Poromechanics Lab, Atlanta - Research Assistant   May 2016 - May 2017

- Analyzed and predicted material property under strong forces.
- Implemented a python script that generates cohesive zone models which were used to understand and predict changes in rock fractures.
- Practiced object-oriented programming and graph theory in designing and constructing models.

SKILLS

Courses: Design & Analysis Algorithms, Perception & Robotics, Machine Learning, Computer Vision, Computer Audio

Tool & Framework: Python, Javascript, Docker, Tensorflow, Druid, MongoDB, Node.js, OpenCV, Flask, Protobuf

Others: Data Structure and Algorithms, MacOS/Unix/Linux environments,

AWS: EC2, S3, Rekognition, SNS, SES, SQS

PUBLICATIONS

Hygiene Monitoring System and Method, filed Aug 2019

U.S. Patent Application 16556453, Patent Pending

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