Julia Zeng

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Education

CORNELL UNIVERSITY 2021-2025

· College of Engineering

· Major: Computer Science

· **GPA:** 3.82/4.30

 Coursework: Algorithms, Functional Programming, Databases, Machine Learning, Operating Systems, Information Retrieval, Data Visualization, Linear Programming, iOS/Android Development, Backend Development

Skills

Flask

Java
Python
Javascript
Swift
Kotlin
OCaml
ReactIS
SQL
Puppet
Git
Postman
Google
Cloud

Experience

SERVICE RELIABILITY ENGINEERING INTERN @ ERICSSON

Jun 2024 - Present

Platform

- Streamline and implement incident management workflow in Google Cloud Platform for a cloud native 5G core network to enable faster resolution times in order to uphold service-level agreements and objectives
- · Build up knowledge base articles to be utilized by AI-based proactive pipelines for fault detection
- · Configure automated incident creation and instantaneous alerting based on network connectivity measures

HUMAN WASTE RECYCLING RESEARCH

Aug - Dec 2023

 Optimized placement and circulation of Kon-Tiki kilns around an Kenyan slum city using computer visionbacked map analysis and models of the facility location optimization problem and set partitioning in order to maximize efficient repurposing of human waste into rich fertilizer

INFRASTRUCTURE AUTOMATION INTERN @ T-MOBILE

May - Aug 2023

- $\cdot \ \ \text{Migrated server configuration modules from GitHub to GitLab and performed regression testing on servers}$
- · Found differences in modules located in build, production, and patching environments using Ruby and Git
- · Added CI/CD pipeline schedules to GitLab repositories using Python and GitLab API
- Deployed and tested build pipeline code release to ~40,000 production servers

CORNELL APPDEV HACK CHALLENGE

April 2022, April 2024

- Built backend for mobile app that connects student tutors and tutees across campus, allowing users to input preferences and schedule tutoring service
 - · Used Python Flask, RESTful APIs, and SQLite; deployed using Docker
- Developed frontend using Swift for iOS scheduling app that finds optimal event times according to overlapping availability between users

RESEARCH EXPERIENCE FOR UNDERGRADUATES (REU) @ IUPUI

Jun - Aug 2022

- Evaluated literature on the use of mmWave radar and point cloud generation in human gesture recognition
- Compared performance of machine learning algorithms in classifying high and low quality point cloud images based on 3D spatial coordinates

MATHEMATICAL CONTEST IN MODELING

Nov 2022, Nov 2023, Feb 2024

- Devised optimal traffic patrol schedule using K-Means Clustering analysis of historical collision data
 Earned Honorable Mention at Cornell MCM (2022)
- Simulated invasive fly population in vineyard over time upon application of optimally chosen insecticide
 Earned Finalist at Cornell MCM (2023)
- Trained model to predict shifts in momentum in tennis games based on live status of players' performance
 Earned Honorable Mention at International MCM (2024) top 31% of participants