JANANI CHINNAM

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EDUCATION

University of Michigan – College of Engineering — **Ann Arbor, MI**

B.S.E. in Computer Science, **Graduation**: April 2019

GPA: 3.4/4.0

Engineering Dean's Honor List (Winter 2017, Fall 2017)

Relevant Coursework: Data Structures and Algorithms (EECS 281), Computer Architecture (EECS 370), Web Systems and Databases (EECS 485), Discrete Mathematics (EECS 203, EECS 376), Computer Security (EECS 388), Models of Social Information Processing (SI 301), Artificial Intelligence (EECS 492), Machine Learning (EECS 445)

EXPERIENCE

Cleo — **Chicago, IL**

Software Engineering Intern, *Integration Cloud Team* — May – Oct 2017

- Designed and automated log aggregation and visualization pipeline for crisis troubleshooting and performance optimization in both development and live production system environments
- Implemented build-stage testing suite to strengthen code coverage by running on new branch commits
- Developed user activity interface to display live visuals of application activity with various filtering, sorting, and dynamic features to enhance client experience in production, leveraging REST protocol and AWS APIs

AgileSystems LLC — **Troy, MI**

Software Development Intern, *Magna Project* — Apr – Jun 2016

- Built user interface for forecasting toolkit to predict warranty claims based on 20+ environmental variables and historical data patterns and statistics, targeting specific vehicle usage subsets and parameters
- Implemented MATLAB scripts to aggregate vehicle data and calculate overall statistics distributed by winter severity, focusing on locations of interest and various prediction scenarios

Boston University — **Boston, MA**

Research Assistant, *Ultrafast Optics Laboratory* — Jun – Aug 2014

- Researched thermal imaging-system applications of femtosecond lasers, and implemented scripts to extract comprehensive data outputted by erbium-doped fiber-optic laser cavities with ranging structural attributes
- Developed program to analyze data and plot optical spectrums for efficient visualization and analysis of central wavelengths, bandwidths, and output power to optimize cavity design and capability

PROJECTS

Node.js Security Check *Groovy* — July 2017

- Cron-like script to continuously check Node.js package dependencies for known security vulnerabilities with integrated Slack notification system determined by priority levels using npm nsp, Docker, and shell code

Phi Gamma Nu Delta Phi Internal Web System *HTML, CSS, JavaScript* — Jan 2017

- Fraternity recruitment scoring automation and internal voting system to streamline procedures
- Public site and authenticated internal logistical pages for file sharing, organization, and member information

MST and TSP Path-Finding Simulator *C++* — Dec 2016

- Systematically designs an optimal path between nodes with options to prioritize speed or accuracy
- Utilizes bounding algorithms and various heuristic approaches to optimize solution speed and memory

PUBLICATIONS

J. Herskovitz, **J. Chinnam**, I. Wong, M. Liu, J. Mo, S.W. Lee, W.S. Lasecki. Crowdsourcing for Effortless Creation of Collaborative AR Spaces. In *CHI Workshop on Novel Interaction Techniques for Collaboration in VR*. Montreal, Canada. 2018.

SKILLS

Proficient	C++, Java, Python, HTML, CSS
Familiar	C, MATLAB, JavaScript, TypeScript, Groovy
Other	Node.js, React, Angular, Bootstrap, Git, Jenkins, Amazon Web Services

ADDITIONAL

Phi Gamma Nu Professional Business Fraternity, Technology Chair

Crowds and Machines Laboratory, Research Assistant

Society of Women Engineers, Member

Indian American Student Association, Dancer

Swimmer, pianist, photographer