

CHETAN SURANA

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Eager to learn and Curiously creative

EDUCATION

- M.S in Computer Science, Engineering Graduate Fellowship recipient** 2019 - 2021
Arizona State University, Tempe, AZ 4/4 GPA
- B.Tech in Computer Science and Engineering** 2015 - 2019
Ramaiah University of Applied Sciences, Bangalore, India 9.25/10 CGPA

TECHNICAL SKILLS

- Application Development & Programming:** Python, Java, C, C++, Haskell, Google Apps Script, DIY with Arduino & Pi
- Data Science, NLP, ML & AI:** Tableau, R, Python, MATLAB, Keras, TensorFlow, OpenCV, Octave, ROS, Rasa
- Mobile App and Web Development:** HTML5, CSS3, JavaScript, Flutter, Android, D3.js, PHP, MySQL, Bulma, Bootstrap

EXPERIENCE

Graduate Research Assistant: Arizona State University, CIDSE 06/2020 - Present

I am part of the team working on Federated Analytics based Contact Tracing, an NSF grant funded project at ASU to develop secure contact tracing protocol and privacy preserving models for continual vulnerability analysis and detection of hotspots.

Research Administrative Aide: Arizona State University, SSEBE 05/2020 – 08/2020

I assist in research efforts in data analysis, development of process maps and other initiatives at the School of Sustainable Engineering and Built Environment (SSEBE).

Academic Tutor, Computer Science: Arizona State University, Fulton Schools, Tutoring Center 03/2020 – 08/2020

I assist students in learning and understanding fundamental concepts by tutoring for several undergraduate Computer Science courses, pertaining to C++, Java, Python, Algorithms, OOP principles, Compiler theory and others.

Front-end Web Developer Intern: Indegene Inc., Bengaluru, India 06/2018 – 07/2018

Used HTML5, CSS3 and several CSS frameworks to redesign important and frequently used company webpages. Applied Responsive Web Design and Material Design principles to make the webpages aesthetic and fluid universally.

PROJECT WORK

Yelp Dataset Visualization 04/2020

- Redesigned User perspective Yelp restaurant search platform with intelligent visualizations, including Bubble chart, Interactive Map, Ratings trend line chart and Radar chart, Frequent Checkins Heatmap, and Review Sentiment Analysis.

Interactive Visualizations from Historical Cost Data in Budget Books to deliver Valuable Insights 01/2020

- Used Tableau to crunch cost data of a construction project in quarterly Budget Books (PDFs) from 2014-2019.
- Created interactive visualizations that allows assessment of impact of schedule delays on project costs, identification of major cost elements and risk elements.
- Co-presented the work with Simplar Research Institute at WCCC Project Controls Summit in Los Angeles.

Cardiovascular Disease Risk Prediction from Carotid Intima-Media Thickness (CIMT) 09/2019 – 11/2019

- Implemented open snakes(Active Contour Model), to segment Lumen Intima and Media Adventitia interfaces in ultrasound images of the Carotid artery to measure CIMT, using which risk of Cardiovascular disease can be predicted.

Multi-agent Reinforcement Learning (MARL) 09/2019 – 11/2019

- Designed and implemented a MARL algorithm where two robots learn a policy automatically to pick books designated for each robot. Used Python and ROS and simulated the robots' behavior successfully in Gazebo.

Intelligent Chatbot for Automated Requirements Elicitation and Classification 02/2019 – 04/2019

- Developed a chatbot to elicit formal system requirements from interaction with stakeholders. Applied machine learning to classify the elicited requirements into Functional and Non-functional categories.
- First author of Research Paper on the work presented and published in 2019 4th IEEE RTEICT Conference proceedings.

ACTIVITIES

Communication and Outreach Officer of SkyAtASU club. Co-founder and Core Committee member of Debug and Cynergy - Computer Science clubs at the University during Bachelors' program.