

SAI CHANDANA PRIYA AVVARU

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Education

Pennsylvania State University, State College

Master of Science in Computer Science and Engineering

Anticipated May 2025

CGPA: 3.56/4

P V P Siddhartha Institute of Technology

Bachelor of Technology in Computer Science and Engineering

April 2020

CGPA: 9.48/10

Experience

Optum - United Health Group

Software Engineer

August 2020 – August 2023

Hyderabad, India

- Created components in Storybook using React and Typescript and integrated them to develop functionalities for the clockwork portal (Optum's PBM site) and also resolved technical issues and risks by collaborating with stakeholders.
- Used distributed version control systems for making changes to the source code and CI/CD pipelines for delivering code in different testing and production environments.
- Designed Miro diagrams according to business rules such as state, flow and sequence diagram.
- Utilized Cypress, to build testing scripts for the components and Accelq to test the site's business flows.
- Executed an agile strategy to meet sprint deliverables while assisting the team in maintaining TTV and TTB.
- Mentored juniors and participated in peer code reviews to ensure adherence to coding standards and best practices.

WOIR Software India Private Limited

Intern

8 Weeks - 2018

Hyderabad, India

- Collaborated on building the Dress-Color Suggestion Interface based on image processing using OpenCV-Python.
- Developed ajax based frontend for WOCLO which is cloud-based Edu-platform for machine learning and big data analytics using cloud computing (digital ocean API using python).

INTERNSHALA

Trainee

8 Weeks - 2018

Online Training Platform

- Leveraging Android Studio, which allowed me to go deeply into various Android domains using Kotlin, I was able to develop a music application named ECHO within 4 weeks.

Mentorship

Learning Assistantship

101 Introduction to Programming

August 2023 – December 2023

Penn State

- For Fall 2023 Semester, I worked as a learning assistant at Penn State for the CMPSC 101 - Introduction to Programming course. I helped students with proctoring tests, grading assignments, and recitation classes. Among my duties consisted of organizing office hours, helping students with programming exercises, creating mini-projects, and assessing a variety of assignments.

Teaching Assistantship

101 Introduction to Programming

January 2024 – Present

Penn State

- I assist Rodger Christman in his CMPSC 101: Introduction to Programming course at Penn State as a Teaching assistant. In addition to helping students with proctoring tests and recitation courses, I will be supporting the professor with the course work and helping graders comprehend the grading procedure. Creating mini-projects, assisting students with programming exercises, setting up office hours, and grading a range of tasks are some of my responsibilities.

Projects

Neural Style Transfer | TensorFlow

February 2020

Summary Two input images—one stylized and the other normal—are combined with a convolution neural network to extract attributes from the styled image and apply them to the normal image.

Applications Real-world applications like gaming and virtual reality.

Detection of Quality of Leaf | NumPy, Keras and Pandas

October 2019

Summary We trained a deep convolutional neural network to recognise 14 crop species and 26 illnesses using a public dataset of damaged and healthy plant leaves gathered under controlled settings. On a held-out test set, the trained model achieves an accuracy of 99.35 proving the viability of this method.

Applications Useful for the farmers as it can help predict melady in a leaf quickly.

Technical Skills

Programming skills: C, Java, JavaScript and Python.

Software tools: Visual Studio, Postman and Android Studio.

Database skills: MySQL, Cosmos DB and MongoDB.

Web Technologies: React, Node, Angular, Material UI, Storybook, HTML and CSS.

Testing Tools: Jest, Cucumber, Cypress and Accelq.

DVCS :Git, GitHub.

Pipelines :Jenkins for CI/CD.

Cloud Platform :Azure.

Certifications

- Azure AZ-900, DP-900, AI-900 Certification from Microsoft.
- Full Stack Engineer, Software Development Engineer in Test (SDET) Certifications from Optum.
- Obtained Elite Certificates from NPTEL online courses in “Introduction to Programming in C”, “Soft Skills and communication” and “Database Management System”.

Relevant Coursework

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|------------------------|---------------------------|-------------------------|-----------------------|
| • Data Structures | • Database Management | • Systems Programming | • Vision and Language |
| • Software Methodology | • Artificial Intelligence | • Computer Architecture | • Natural Language |
| • Algorithms Analysis | • Computer Networks | • Distributed Systems | Processing |

Leadership Experience

- Chairperson for ACM student chapter in my college.
- Board member for the student chapter, Computer Society of India.
- Board member for IGSA student chapter.

Achievements

- Secured all India rank 3641 in Graduate Aptitude Test in Engineering (GATE).
- Sapphire and amethyst recognitions from Optum for my contribution.
- MAKE IT HAPPEN award for being a part of end to end team and our ability to deliver on time with clean code.