

SAI CHANDANA PRIYA AVVARU

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Summary

Experienced Software Engineer with expertise in full-stack development, testing, and project management, currently pursuing an MS in Computer Science at Penn State, with a proven track record of enhancing software efficiency and mentoring peers.

Education

Pennsylvania State University, State College

Anticipated May 2025

Master of Science in Computer Science and Engineering

CGPA: 3.65/4

P V P Siddhartha Institute of Technology

April 2020

Bachelor of Technology in Computer Science and Engineering

CGPA: 9.48/10

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.js, Next.js, Node.js, Angular.js, spring, Javascript, Material UI, Storybook, HTML, CSS, Framer Motion and Tailwind.

Testing Tools: Jest, Cucumber, Cypress and Accelq.

DVCS :Git, GitHub, Docker.

Pipelines :Jenkins for CI/CD.

Cloud Platform :Azure.

Agile :Scrum, Rally

Relevant Coursework

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

Certifications

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

Experience

Optum - United Health Group

August 2020 – August 2023

Software Engineer

Hyderabad, India

- Engineered interactive components in Storybook with React and TypeScript; integrated functionalities into Clockwork portal, resolving key technical risks through stakeholder collaboration and increasing portal efficiency by 35
- Streamlined code delivery using distributed version control systems and robust CI/CD pipelines, achieving a 30% reduction in bug-related downtime and accelerating release cycles by 50% across testing and production environments.
- Crafted detailed Miro diagrams encompassing state, flow, and sequence diagrams; ensured adherence to business rules, streamlining project workflows and boosting team efficiency by 30% and reducing errors by 20%
- 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

8 Weeks - 2018

Intern

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

8 Weeks - 2018

Trainee

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

Teaching Assistantship

August 2023 – May 2024

CMPSC 101 Introduction to Programming

Penn State

- I have assisted 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.

Grading Assistantship

May 2024 – Present

CMPSC 131, Programming and Computation 1: Fundamentals

Penn State

- For summer 2024, I am assisting Prof Jay Pope with grading assignments, quiz for his course work.

Projects

Portfolio | *Next.js, React.js, Tailwind*

May 2024

Summary Following a youtube tutorial I have got some hands-on experience on preparing portfolio website using Advanced front-end technologies and hosted on vercel.app

All-to-key Attention for Arbitrary Style Transfer | *Torch*

December 2023

Summary On top of NEURAL STYLE TRANSFER, this is an optimised model that helps to increase accuracy of applying style to an image

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 melody in a leaf quickly.

Leadership Experience

- Chairperson for ACM student chapter - PVPSIT.
- Board member for the student chapter, Computer Society of India - PVPSIT
- Event Co-ordinator for IGSA student chapter - Penn State

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.