

Akhil Pavan Sai Machavaram

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EDUCATION

Master of Science in Computer Science

(08/2023 - 08/2025)

- **University Of Central Florida**, Orlando, FL

GPA - 4.0 / 4.0

- **Relevant Coursework:** Advanced Data Structures and Algorithms, Machine Learning, Virtual Reality

Bachelor of Engineering in Computer Science

(05/2018 - 06/2022)

- **Osmania University**, Hyderabad, TS

GPA - 3.5 / 4.0

- **Relevant Coursework:** Object Oriented Programming, Software Engineering, Data Science, Information Technology, Web Development Technologies

SKILLS

Programming Languages: Python, Java, C++, C

Web Development Technologies: React, Spring Boot, Node.js, Flask, Bootstrap, Storybook, HTML, CSS, Javascript, Typescript, REST APIs, GraphQL, OAuth, CI/CD, Cypress, Jest

Database Management Systems: MySQL, SQL, MongoDB, Cloud technologies

Game Development Technologies: React Native, Unity

Machine Learning & Data Science: TensorFlow, PyTorch, Sklearn, Numpy, Pandas, PowerBi, R

Software Development Tools: Git & GitHub, Jira, Figma, Agile methodologies, UNIX(Operating Systems), Microsoft Office suite including Outlook, Excel, and PowerPoint

Strong experience with Data Structures and Algorithms, OOP, SDLC (Software Development Life Cycle)

WORK EXPERIENCE

Software Engineer 1 | ZeMoSo Technologies, Hyderabad, India

(01/2023 - 06/2023)

- Accomplished an enhancement in operational efficiency by developing a full-stack web application, leading a team of 13 members
- Achieved a 40% increase in user engagement by integrating internationalization into the Events and Teams modules, catering to global user preferences

Associate Software Engineer | ZeMoSo Technologies, Hyderabad, India

(06/2022 - 12/2022)

- Led the development of a hybrid mobile app, enhancing user interaction through optimized load-out and user profile screens
- Achieved cross-platform compatibility on two platforms (iOS and Android), improving app accessibility and user experience
- Implemented intuitive User-experience (UX) design, boosting usability and efficiency by 5% for app users

Software Developer Intern | ZeMoSo Technologies, Hyderabad, India

(10/2021 - 05/2022)

- Led 4 in-house project boot camps in developing scalable micro-apps using React, React Native, and SpringBoot, aimed at enhancing system performance
- Enhanced code quality and system reliability through rigorous testing, achieving a 40% reduction in post-launch bugs

PROJECTS

Collab Text: A Real-Time Collaborative Document Editor (Web Development)

(04/2024 - 05/2024)

- Designed and launched a collaborative editing tool using React, enabling real-time synchronization for over 100+ concurrent users with full CRUD operations managed via MongoDB
- Integrated Socket.IO to facilitate instant communication across clients, ensuring operational transformation for document consistency during simultaneous edits by multiple users

Real-Time Sentiment Analysis Tool for YouTube Comments (Machine Learning)

(03/2022 - 04/2022)

- Led the creation of a sentiment analysis tool with 80% accuracy, leveraging NLP and machine learning to analyze YouTube comments for sentiments
- Built an interactive web interface for instant YouTube comment analysis, featuring 2 API calls integration and data visualization

Smart Expense Tracker: A Full-Stack Expense Management System (Web Development)

(01/2021 - 02/2021)

- Crafted a Smart Expense Tracker with the MERN stack, featuring 4 modules: analytics dashboard, transaction viewer, income registration, and expense tracking, optimizing financial management
- Incorporated robust security protocols such as SSL encryption and JWT authentication to safeguard user data and ensure privacy

CERTIFICATIONS

- Supervised Machine Learning: Regression and Classification by DeepLearning.AI & Stanford University
- Programming, Data Structures, and Algorithms Using Python by IIT Madras, NPTEL

AWARDS / VOLUNTEER WORK

- **Volunteer:** IEEE VR 2024 Orlando, FL International Conference Local Student Volunteer. Assisted with VR setup, improved IT support, and helped develop the conference app for enhanced attendee engagement
- **Mentorship:** Mentored six development interns, focusing on software development best practices and team collaboration, resulting in a 100% conversion rate to full-time positions
- **Code-a-thon Winner:** Excelled in an ACM (Association for Computing Machinery) competitive coding event by clinching the 1st rank, demonstrating proficiency in algorithms and programming