

Amireddy Shashank Reddy

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Summary

Product-focused software developer with expertise in backend development, Machine Learning, and blockchain. Passionate about building real-world applications that solve meaningful problems and serve active users. Thrive in fast-paced environments, focusing on innovation, end-to-end development, and continuous learning.

Education

Amrita Vishwa Vidyapeetham <i>Bachelor of Technology in Computer Science and Engineering (CGPA: 9.16)</i>	2022 – Present <i>Bengaluru, Karnataka</i>
Sri Chaitanya Junior College <i>MPC, Class XII, Aggregate: 92.8%</i>	2020 – 2022 <i>Hyderabad, Telangana</i>
Maharishi Vidya Mandir <i>Class X, CBSE, Aggregate: 81%</i>	2020 <i>Hyderabad, Telangana</i>

Experience

Traboda CyberLabs <i>SDE Intern</i>	May 2024 – Dec 2024 <i>Kerala, India</i>
• Contributed to backend development of Traboda's CTF platform and internal tooling, enhancing performance and scalability. • Ensured application and infrastructure security by identifying vulnerabilities, implementing fixes, and supporting secure development practices. • Assisted in managing cloud-based server infrastructure used to host national and international CTF competitions, including government and institutional events.	

Projects

Ridewise – Fare Comparison Web App <i>Next.js, FastAPI, Selenium, OpenStreetMap</i>	May 2025
• Designed and developed a web application to compare fares across multiple ride-hailing platforms in real time, promoting cost-effective commuting decisions. • Achieved 98% fare prediction accuracy and reduced average user trip costs by 15% through intelligent comparative analytics. • Onboarded 60+ users, validating app usability, performance, and reliability in real-world commuting scenarios.	
DocuMed: Docker-Based P2P File Sharing for Medical Records <i>Docker, P2P, Python</i>	April 2025
• Developed a decentralized Docker-based peer-to-peer (P2P) file-sharing system for secure and efficient exchange of medical records between healthcare institutions. • Built a fault-tolerant system using Docker containers, ensuring isolated and reproducible environments for each healthcare node. • Implemented real-time peer coordination, file segmentation, and encryption to provide secure data transfer between healthcare organizations. • Integrated file integrity verification and chunk-based file transfers to enhance data accuracy and prevent tampering. • Enabled decentralized node communication for efficient file-sharing, ensuring secure access to sensitive medical data.	
Predictive Modeling for Train Delay Forecasting <i>Python, Selenium, TensorFlow</i>	January 2025
• Developed a machine learning stacking model to predict train delays using real-time weather and historical performance data. • Aimed at enhancing operational efficiency and empowering passengers with delay insights in advance. • Increased prediction accuracy to 87%, reducing average commuter wait times by 25% through early delay warnings. • Scrapped and analyzed 10,000+ data points across 10 major stations to identify patterns and optimize model performance.	

Technical Skills

Programming: Python, C, C++, SQL, Java, Data Structures and Algorithms

Machine Learning / Deep Learning: TensorFlow, PyTorch, Scikit-learn, Deep Learning, Statistical Modeling

Data Science / Tools: NumPy, Pandas, Selenium, BeautifulSoup

Development: HTML, CSS, JavaScript(Basic), React.js(Basic)

Technologies/Frameworks: NodeJS(Basic), Git, GitHub, Astro, Foundry

Certifications

AWS Academy Graduate – AWS Academy Cloud Foundations <i>AWS Academy</i>	March 2025 View Credential
• Gained foundational knowledge of AWS services including EC2, S3, IAM, RDS, and VPC. • Learned key cloud concepts such as scalability, elasticity, global infrastructure, and pricing models. • Understood cloud security best practices and the AWS Shared Responsibility Model.	

S3 Basics: AWS Simple Storage Service <i>Coursera</i>	August 2023 View Credential
• Created and managed S3 buckets, set access permissions, and implemented bucket policies. • Enabled S3 features like encryption, versioning, and lifecycle rules for efficient storage management. • Deployed a static website using Amazon S3 with proper configuration for public access and hosting.	

Positions of Responsibilities

bi0s Meetups Organizer	May, 2024 – Present
• Part of the core organizing committee for 12+ high-impact cybersecurity meetups hosted at venues like Flipkart, Myntra, Meesho, Microsoft, and CloudSEK. • Supported event planning, logistics, and speaker coordination for theme-based sessions on reverse engineering, malware analysis, exploit development, and GenAI security. • Helped conduct monthly events engaging approx. 200 students and professionals from diverse domains in the cybersecurity community.	
bi0sblr CTF Team Team lead	July 2024 – July 2025
• bi0s is India's No. 1 ranked CTF team and Cyber Security research club since 2016. • Executed performance improvement strategies with a focus on strategic thinking, analyzing strengths, and addressing areas for growth to meet evolving cybersecurity challenges. • Spearheaded internal team recruitment drive, overseeing the recruitment of 15+ new members, aligning with team values and enhancing expertise.	

Achievements

- Won 2nd prize in Forge GG Hackathon for developing an AR-based Instagram filter game.
- Won the Most Innovative Award in AI Hackathon conducted by IEEE Computational Intelligence Society.
- Secured 3rd place in ShunyaCTF hosted by MIT-ADT Pune.

Extracurricular

National Cadet Corps (NCC) - Air Force <i>Cadet</i>	June 2018 – May 2020 <i>NCC</i>
• Active NCC-Air Force participation, fostering discipline, leadership. Strengthened teamwork, problem-solving, and sense of responsibility, organized approaches. Gained valuable insights into the principles of aviation and military operations.	