

Amireddy Shashank Reddy

📧 shashank-amireddy | 🌐 Shashank Amireddy | 🌐 quantumloom.in
✉ amireddy.shashank31@gmail.com | 📞 +91 7702290601

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>
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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.Scraped 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	March 2025
<i>AWS Academy</i> <ul style="list-style-type: none">• 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.	<i>View Credential</i>
S3 Basics: AWS Simple Storage Service	August 2023
<i>Coursera</i> <ul style="list-style-type: none">• 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.	<i>View Credential</i>

Positions of Responsibilities

bi0s Meetups Organizer	May, 2024 – Present
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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

<ul style="list-style-type: none">• 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	June 2018 – May 2020
<i>Cadet</i> <ul style="list-style-type: none">• 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.	<i>NCC</i>