

Dinesh Pandikona

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PROFESSIONAL SUMMARY

Detail-oriented computer science student specializing in backend development and algorithmic *problem-solving*. Passionate about **mathematics**, **distributed systems**, and **machine learning**, with a strong commitment to building scalable solutions in industries where performance and reliability are critical

EDUCATION

M.S in Computer Science, Northeastern University Operating Systems, Algorithms, Databases, Machine Learning	2023-2025 Boston
B.S in Computer Science, VNR VJIET Distributed Systems, Data Structures, Design Thinking, Calculus	2018-2022 Hyderabad

WORK EXPERIENCE

Backend Software Engineer, Intern <i>Bose Professional</i>	07/2024 – 12/2024 Framingham
<ul style="list-style-type: none">Worked on a next-gen audio platform, enabling users to manage setups across various locations within secondsImproved reliability by 30% by building features that enforced rules and initiated events based on various audio parameters, enhancing the logic engine for consistent device performance across distributed systems using GoUtilized Memberlist, GraphQL, and Erlang/OTP framework to develop scalable web services optimizing real-time audio data synchronization, reducing latency by 25% through effective <i>concurrency</i> and <i>caching</i> strategies	
Fullstack Software Analyst <i>Deloitte</i>	02/2022 – 08/2023 Hyderabad
<ul style="list-style-type: none">Worked on an enterprise finance management platform, enabling users to track expenses and visualize budgetsIncreased stakeholder engagement by 22% by developing features such as real-time expense tracking and collaborative, multi-user data editing—like JIRA—using React, TypeScript, and PostgreSQL, with an intuitive UIReduced processing time by 50% by building Java-based GUI tools to automate four critical tasks and implementing SQL scripts that enabled users to run requirement-based jobs, significantly improving efficiency	
Machine Learning Engineer, Intern <i>Blaze Automation</i>	02/2021 – 06/2021 Hyderabad
<ul style="list-style-type: none">Worked on an elderly-care monitoring system, enhancing patient care through non-intrusive machine learningPartnered with a multidisciplinary team to develop a robust and scalable ML model in Python, achieving 86% accuracy in anomaly detection using OpenTelemetry data collected from proprietary in-home IoT devicesDeveloped a proof of concept, resulting in a published research paper that highlighted the project’s innovation	

PROJECTS

MAZY AI Python, Algorithms	April 2025
<ul style="list-style-type: none">Created an educational tool that helps novice programmers and AI students visualize <i>complex search algorithms</i>Built with Pygame to demonstrate pathfinding algorithms like A* on customizable maze dimensions and pace	
HADI Java, Swing	September 2024
<ul style="list-style-type: none">Developed a desktop image editor to incorporate mathematical concepts and programming design paradigmsBuilt with Java, packed with features like load, channel extraction, filters, compression, histogram generation	

TECHNICAL SKILLS

Languages:	Golang, Java, Python, TypeScript
Frameworks/Databases:	Node.js/Next.js (MERN), PostgreSQL, MySQL, Redis (certified)
Libraries/Cloud:	React.js, Redux.js, Azure (CosmosDB), AWS (EC2, RDS, Lambda)
Toolkits:	REST/GraphQL APIs, Kafka, Docker, CI/CD, Pandas, PyTorch, TensorFlow, LLMs