

SRIBHUVAN REDDY YELLU

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EDUCATION

Master of Science in Computer Science, Georgia State University

Jan 2024 - May 2025

Bachelor of Science in Computer Science, Georgia State University

Aug 2020 - Dec 2023

• *Graduated with Summa Cum Laude from Georgia State University.*

SKILLS

Languages Python, Java, JavaScript, TypeScript, Swift

Technologies HTML5, CSS, Angular, React.js, Express.js, Node.js, Next.js, Spring Boot

Database SQL, Firebase, MongoDB, MySQL, PostgreSQL

Tools Azure DevOps, Docker, GraphQL, Git

PROFESSIONAL EXPERIENCE

Software Engineer Intern

May 2024 - Present

PearsonVUE

- Developed System Test Receipt Dashboard in Angular and Spring Boot, reducing test-launch troubleshooting time by 40%.
- Designed unit test for Angular code, achieving 95% coverage ensuring a seamless, top-quality user experience.
- Engineered a scalable backend service in Java Spring Boot enhance internal operations, increasing user efficiency by 20%.
- Delivered code following SDLC and Agile Kanban, collaborating with 3 cross-functional teams.
- Optimized CI/CD pipelines with Azure DevOps, TeamCity, and Helm, cutting deployment time by 30%.
- Updated SQL scripts for key data updates across all clients, ensuring 100% data integrity during critical operations.
- Spearheaded the implementation of DiskANN indexing PostgreSQL in RAG service to cut down indexing times by 35%.
- Built an MCP server on Bookings-API with Claude + Perplexity for one-chat scheduling and related recommendations.

Software Engineer Intern

May 2023 - Aug 2023

NCR Corporation

- Developed frontend features in Next.js, enhancing acquisition & retention impacting 95% total customer transactions.
- Implemented GraphQL middleware that cut data-fetch latency and boosted overall app performance by 15%.
- Collaborated with an 8-member Agile team on sprint planning, refinements, and daily stand-ups to ship features on time.
- Achieved 100% coverage with Jest and React Testing Library unit & integration tests, safeguarding feature quality.

Software Engineer Intern

May 2022 - Aug 2022

NCR Corporation

- Orchestrated the proof of concept for an iOS app by migrating 100% REST APIs in swift from NOLO legacy to Mercury.
- Refactored existing API endpoints to align with Mercury's modern architecture, reducing request-response latency by 25%.
- Streamlined data retrieval and faster consumer request processing by migrating it to modern service layer.
- Integrated customer-centric UI components with 3 engineers, seamlessly connecting front-end and back-end infrastructure.

PROJECTS

FitFusion-AI [*Streamlining Personalized Health and Fitness Guidance with AI*]:

- Managed a Retrieval-Augmented Generation (RAG)-based system integrating Pinecone vector database and GPT-4.
- Achieved 87% relevance accuracy by enabling real-time, context-aware query responses using a RAG pipeline.
- Reduced query latency to 9 seconds by optimizing embedding generation, document retrieval, and GPT-4 response synthesis.
- Designed iterative, context-aware query processing, achieving 90% user satisfaction from real-time feedback.

Drive-Thru Vision [*Revolutionizing Drive Thru Systems*]:

- Secured top 5 position and received honorable mention at NCR global Hackathon for this project.
- Driven automated licence plate recognition within drive-thru systems, to provide personalized menu to customers.
- Implemented an ML-powered CV model with OpenCV and Tesseract OCR, with a 90% accuracy in license plate recognition.
- Integrated the model into an NCR product, utilizing a Flask backend and MongoDB for storing and managing data.
- Built an interactive front-end using React.js, ensuring a seamless user experience for drive-thru operators and customers.

AWARDS & RESEARCH

- Co-authored a research paper on Dynamic Contextual Attention Network for Endoscopic Polyp Diagnosis.
- Secured a top 5 position and received an honorable mention at the NCR Global Hackathon.