

Sribhuvan Reddy Yellu

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Professional Experience

Pearson VUE, Bloomington, MN

May 2024 – Present

Software Engineer Intern (Full Stack Development)

- Revamped frontend using Angular by adding ST Receipt feature, updating verbiage, and integrating backend endpoints.
- Developed unit tests for Angular code, enhancing reliability and adhering to best software development practices.
- Engineered a new service using Java Spring Boot to support internal operations, improving efficiency and user experience.
- Followed SDLC and Agile Kanban methodologies to deliver code, collaborating with 3 teams for timely efficient deployments.
- Established CI/CD pipelines with Azure DevOps and TeamCity, and adding Helm charts to streamline development.
- Updated SQL scripts to update keys for all clients, ensuring data integrity during crucial information updates.

TReNDS Center, Atlanta, GA

Aug 2023 – Present

Research Assistant (Machine Learning & AI)

- Implemented Dynamic Contextual Attention Network (DCAN) for colorectal polyp detection, achieving 94.75% accuracy.
- Enhanced focus on polyp regions by transforming spatial features into adaptive contextual insights while filtering noise.
- Utilized EfficientNetV2B0 for feature extraction and a regularized classification head to enhance diagnostics and explainability.

NCR Corporation, Atlanta, GA

May 2023 – Aug 2023

Software Engineer Intern (Full Stack Development)

- Developed 'Fees' feature in Aloha Order Direct which impacts over 95% of total customer transaction experiences.
- Coordinated with 8 member Agile team and used Next.js for frontend, GraphQL middleware and Nest.js for backend.
- Executed unit testing using Jest and React Testing Library to ensure 100% coverage and robust functionality.

NCR Corporation, Atlanta, GA

May 2022 – Aug 2022

Software Engineer Intern (iOS Development)

- Orchestrated the intern team's proof of concept by migrating 100% REST APIs in swift from NOLO legacy to Mercury.
- 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.

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, Swift, Kotlin, HTML5, CSS

Frameworks & Libraries: Next.js, React, Angular, Node.js, Spring Boot, Flutter, TensorFlow, PyTorch

Tools & Technologies: Azure DevOps, AWS, Docker, GraphQL, iOS, Git, MongoDB, MySQL, Relational Databases

Projects

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

- Executed a Retrieval-Augmented Generation (RAG)-based system integrating Pinecone vector database and OpenAI 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 85% user satisfaction from real-time feedback.

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

- Executed automated licence plate recognition within drive-thru systems, that enables to provide personalized menu to customers.
- Implemented a ML algorithm & CV model using OpenCV and used Tesseract OCR, achieving an accuracy of 90%.
- Applied this model to an existing product at NCR with a flask backend and worked with MongoDB for data management.

Education

Georgia State University, Atlanta, GA

Jan 2024 – May 2025

Masters in computer science

Georgia State University, Atlanta, GA

Aug 2020 – Dec 2023

Bachelors in computer science

Awards

- Spearheaded a research paper on Dynamic Contextual Attention Network for Endoscopic Polyp Diagnosis, currently in review.
- Graduated bachelor's with Suma Cum Laude from Georgia State University.
- Secured top 5 position and received honorable mention at NCR global Hackathon.