

# Sribhuvan Reddy Yellu

Atlanta, GA | +14706284804 | [sribhuvan.y@gmail.com](mailto:sribhuvan.y@gmail.com)

<https://www.sribhuvanyellu.com/> | <https://www.linkedin.com/in/sribhuvanyellu/> | <https://github.com/Sribhuvan-25>

## Professional Experience

**Pearson VUE**, Bloomington, MN

May 2024 – Present

*Software Engineer Intern (Full Stack Development)*

- Revamped frontend using Angular by adding high impact features, updating verbiage, and integrating backend endpoints.
- Designed units 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.
- Established scalable CI/CD pipelines with Azure DevOps, TeamCity and added Helm charts, reducing deployment time by 40%.
- Updated SQL scripts for key data updates across all clients, ensuring 100% data integrity during critical operations.

**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 frontend features in Next.js, enhancing acquisition & retention impacting ~95% total customer transactions.
- Executed and elevated microservices architecture using GraphQL, gRPC, and RESTful APIs, improved backend scalability.
- Created and integrated end-end testing suites using Jest and React Testing Library, ensuring high-quality, maintainable code.

**NCR Corporation**, Atlanta, GA

May 2022 – Aug 2022

*Software Engineer Intern (iOS Development)*

- Orchestrated the proof of concept for an iOS app 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, React Query, Angular, Node.js, Spring Boot, Flutter, TensorFlow, PyTorch

**Tools & Technologies:** Azure DevOps, AWS, Docker, GraphQL, Git, MongoDB, MySQL, PostgreSQL, SQLite, Relational Databases

## Projects

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

- Managed 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 90% user satisfaction from real-time feedback.

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

- Driven 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.
- Graduated bachelor's with Suma Cum Laude from Georgia State University.
- Secured top 5 position and received honorable mention at NCR global Hackathon.