Sribhuvan Reddy Yellu

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Professional Experience

Pearson VUE, Bloomington, MN   *May 2024 – Present*
Software Engineer Intern (Full Stack Development)
- Enhanced 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.

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)
- Spearheaded 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

Research Experience

TReNDS Center, Atlanta, GA   *Jan 2024 – Present*
Graduate Research Assistant
- Engineered end-to-end endoscopic image classification system using DenseNet and Grad-CAM++, achieving 90% accuracy.
- Designed guided patch extraction and adaptive thresholding for precise polyp detection, enhancing model performance.
- Created a meta-classifier ensemble with RandomForest, GradientBoosting, and LogisticRegression, boosting recall to 91%.

Georgia State University, Atlanta, GA   *Nov 2021 – May 2023*
Undergraduate Research Student
- Formulated a CNN LSTM deep learning model to generate intricate melodies, incorporating 3 features: pitch, duration, & offset.
- Processed model on 1000+ German folk music pieces, leveraging power of TensorFlow and music21 library.
- Executing an optimization concept involving 'placing matrix' which would result in an 86% reduction in training time.

Projects

Drive-Thru Vision *[Hackathon Project]***:**
- Executed automated licence plate recognition within drive-thru systems, that enables to provide personalized menu to customers.
- Implemented a ML algorithm & Computer vision model using OpenCV and used Tesseract OCR, achieving an accuracy of 80%.
- Integrated 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

- Graduated bachelor's with Suma Cum Laude from Georgia State University.
- Secured top 10 position and received honorable mention at NCR global Hackathon.