

# Ramachandra Yerramsetti

Hartford, CT | rcyerramsetti@protonmail.com | (959)-232-0757 | [Portfolio](#) | [LinkedIn/ramachandra-yerramsetti](#) | [GitHub](#)

## Summary

Full Stack Engineer with 5+ years of experience developing scalable web applications and microservices using Java, Python, React, and Node.js. Strong track record in building secure systems, driving deployments, leading teams, and conducting code reviews.

## Work Experience

**Mobile Application Developer**, UCONN Health – Farmington, CT March 2024 – May 2025

- Developed a cloud Native application using **React Native**, **Node.js** and **AWS S3**, achieving 90%+ image classification accuracy for lateral flow strip (COVID detection).
- Engineered cost-effective image processing solution using open-source libraries, eliminating \$0.15 per-call API expenses while maintaining background removal and enhancement capabilities.
- Implemented automation scripts interfacing with Windows application APIs through .NET libraries, achieving 100% automation of laboratory workflows that previously required manual intervention.

**Backend Software Engineer(Java)**, SNCB-NMBS – Saint-Gilles, Belgium June 2022 – July 2023

- Collaborated with 15-member cross-functional team in developing the Employer Mobility Pack feature using **Spring MVC** and **Spring Security**. automating employee transport benefits and reducing HR processing time per request by 80%.
- Led a 5-member delivery team in deploying on **AWS** through **Jenkins CI/CD** pipelines, implementing Docker containerization for environment replication, and integrating **Grafana** monitoring for API performance.
- Integrated SAML SSO for 20,000+ users, streamlining secure access via enterprise IdPs and reducing manual setup across 15+ partner companies.
- Improved CI reliability by 30% by expanding **JUnit/Mockito** coverage and fixing flaky tests, leading to more stable deployments across multiple sprints.

**Full stack Software Engineer**, Merck & Co. – Rahway, NJ June 2019 – May 2022

- Built **Java** servlets with REST API integration for real-time SAP HANA data access, improving frontend response time from 15s to 4s.
- Achieved 93% code coverage through **Jest** unit tests and **Cypress** E2E testing, Monitoring and mocking APIs with **Playwright**, exceeding previous implementation metrics by 17%.
- Implemented database connections between Java application servers and SAP HANA, optimizing data retrieval for high-performance reporting.

## Skills

**Languages & Frameworks :** Java, Python, SQL, Typescript, Kotlin, React(NextJS), React Native, Redux, Django, Spring Boot, Spring MVC, Spring Security, Node.js, FastAPI

**Database:** NoSQL(MongoDB), MySQL, PostgreSQL, Redis, Elasticsearch, SAP HANA

**Cloud & DevOps:** Git, CI/CD (Jenkins, GitHub Actions), Kubernetes, Linux/Unix, AWS (Lambda, Fargate, ECS, API Gateway, S3), GCP (BigQuery, Vertex AI), Jira

**Certifications:** AWS Cloud Practitioner(2024)

## Projects

**Agentic Expense Tracker** [github.com/Expensetracker](https://github.com/Expensetracker)

- Engineered an AI-powered full-stack finance app using React, Node.js, and MCP server, integrating a chatbot, automated receipt scanning, and intelligent expense categorization through secure REST APIs for real-time insights.
- **Technologies:** Claude MCP, DataStax AstraDB (RAG), Node.js, NextJS, PostgreSQL, Jest, PyTest, OpenAI API

**Cyberinfrastructure Competition Winner**, Citibike Prediction Model [github.com/Cyberinfrastructure](https://github.com/Cyberinfrastructure)

- Developed Python ML models to predict Citibike demand across Manhattan using time, location, and demographic data, enabling smarter bike allocation and winning 1st prize for innovation and real-world impact.
- **Technologies:** Python, Scikit-learn, Pandas, GeoPandas, TensorFlow, ArcGIS

## Education

**University of Connecticut**, MS in Computer Science (GPA: 3.8/4.0 ) Sept 2023 – May 2025

- **Coursework:** Algorithms & Complexity, Cybersecurity, Natural Language Processing, Big Data Analytics

**K L University**, BS in Electrical Engineering (GPA: 3.9/4.0 ) Sept 2015 – May 2019

- **Coursework:** Computer Architecture, Object-Oriented Programming, C & Data Structures