# 'ANITH AMBADAS

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#### **EDUCATION**

Master of Science: Computer Science, University at Buffalo, SUNY, June 2025 - GPA: 3.86 Bachelor of Technology: Electronics & Communication, Vellore Institute of Technology, August 2021

### **WORK EXPERIENCE**

## Cognizant India Pvt. Ltd., India

Software Development Engineer:

June 2022 - Dec 2023

- Developed reusable base code for new-market integrations, reducing manual efforts by 100 hours per market.
- Integrated NSDL (KYC verification and PAN validation) into the credit card application process, reducing processing time by 75%, and lowering manual error rates by 90%. This initiative improved customer experience, allowing for smoother coordination between business and technical teams and more scalable operations.
- Collaborated on ambiguous product requirements to deliver scalable backend features, contributing to end-to-end user experiences aligned with organizational goals.

### Junior Software Development Engineer.

July 2021 – May 2022

Leveraged APIs to implement automated RISK checks, like validation of low-income status and detection of fraudulent applications for India market. Resulting in immediate declines in ineligible applications, reducing processing load by approximately 3,000 applications within a 2-month period.

## Software Engineering Intern:

Jan 2021 – June 2021

- Designed and implemented full-stack web applications using Java Spring Boot for the backend and HTML, CSS, JavaScript as front-end technologies, ensuring seamless user experiences and robust functionality.
- Created RESTful APIs using Java Spring Boot, enabling efficient communication between the client-side applications and server, while ensuring data security and integrity.

### **COMPUTER SCIENCE PROJECTS**

## Ticket Booking System (Full Stack): Spring Boot, React, Angular, PostgreSQL

- Engineered a highly concurrent ticket booking platform supporting 10,000+ users, employing objectoriented best practices.
- Maintained 99.9% uptime, reducing load time by 40% through robust backend design and efficient SQL queries.

#### Chest X-ray Image Analysis using Deep Learning: Python, Pytorch, Jupyter

- Built an Autoencoder-based model to compress X-ray images, accelerating downstream CNN training by 300 times.
- Used GANs to generate 2500 new synthetic images given the paucity of data and data imbalance to build a more robust and accurate way to build the CNN model, showcasing early use of large language model-adjacent techniques in Al-powered automation.

## Ride-sharing Microservice Architecture: Docker, Kubernetes, AWS (ECS, RDS, S3), React, JavaScript

- Designed and deployed scalable microservice architecture with container technologies, enabling automatic scaling and load balancing services to handle high traffic efficiently across multiple AWS availability zones.
- Integrated AWS ECS, RDS, and S3 to ensure seamless scaling, multi-region availability, and secure data storage for microservices, and version control with GitHub.

### **SKILLS & TOOLS**

Languages: Java, Python, C, C++, SQL, JavaScript.

Databases: MySQL, PostgreSQL, MongoDB, Redis (Familiarity with SQL Server).

Frameworks & Tools: Spring Boot, React, Angular, Docker, Kubernetes, Twillio, Trello, AWS (ECS, RDS, S3)

Other: HTML/CSS, Object-Oriented Design, RESTful APIs, Microservices, Tableau.

Methodologies: Agile/Scrum.

### **AWARDS & INVOLVMENT**

Speaker, CSE Workshop Seminar on Cloud Computing (Docker), University at Buffalo March 2025 Speaker, CSE Workshop Seminar on Data Structures and Algorithms, University at Buffalo **April 2025** Membership Lead, IEEE Student Chapter, Vellore Institute of Technology August 2019 - June 2020

Organizer, Riviera cultural fest, Vellore Institute of Technology

September 2018 – Feb 2019