

# Amal Dev Cheepra Mailapraavan

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## EDUCATION

### Binghamton University, State University of New York

Master of Science in Computer Science

May 2026

### Dr. Mahalingam College of Engineering and Technology

Bachelor of Engineering in Computer Science and Engineering

May 2022

Cumulative GPA: 3.75/4.00

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, JavaScript, TypeScript, HTML, CSS

**Frameworks & Libraries:** Angular, React, Node.js, Express, Flask, TensorFlow, OpenCV

**Databases:** MongoDB, MySQL, Firebase

**Concepts:** REST APIs, CI/CD, Docker, Agile Scrum, OOP

**UI & Visualization:** PowerBI, Tableau, TailwindCSS, Bootstrap

## PROFESSIONAL EXPERIENCE

### Zoho

Chennai, India

Member Technical Staff

July 2023 – August 2023

- Led migration of enterprise applications from **Angular** v7 to v13, reducing build time by 35% and improving feature delivery time by 20%
- Built Selenium-based regression test automation for existing features, cutting manual test time by 60% and safeguarding product stability during new feature rollouts.
- Implemented multilingual support (English & Spanish) using Angular i18n libraries, expanding global accessibility and UX
- Mentored 5+ new hires post-onboarding—supporting environment setup, knowledge transfer, and best practices adoption

### GoFrugal

Chennai, India

Member Technical Staff

July 2022 – June 2023

- Led enhancements to core ServQuick POS functionality, serving over 2,000 restaurants across India and Southeast Asia
- Engineered inventory and sales tools such as Offer Management and Super Category modules, increasing operational efficiency by 25%
- Collaborated with the security team to proactively identify and resolve vulnerabilities in newly deployed features
- Participated in client meetings and product presentations, translating complex technical solutions into clear, actionable insights for stakeholders

### GoFrugal

Chennai, India

Intern - Member Technical Staff

September 2021 – June 2022

- Supported the frontend team in building customer-facing features for the ServQuick POS system using Angular
- Contributed to the development of modules like the Kitchen Display System (KDS) and Customer Display System (CDS), improving kitchen-to-customer communication
- Designed and implemented waiter-less ordering system with multilingual support for mobile users, improving user convenience
- Gained exposure to Agile workflows, actively participating in sprint meetings and product discussions

## PROJECT EXPERIENCE

### BuyOut

April 2025 – Present

- Designed and implemented a secure, user-friendly interface for listing, searching, and purchasing gadgets using Angular, NodeJs and express
- Built RESTful APIs to manage authentication, listings, and transactions, enabling seamless P2P trading
- Integrated MongoDB for scalable cloud data storage and fast access, facilitating low-cost gadget reuse for students

### FlockFinder

May 2024 – June 2024

- Developed a Flask-based bird recognizer app that enables users to upload images and receive real-time analysis and bird classification results using a Convolutional Neural Network (CNN)
- The image recognition app classifies 255+ bird species using CNN model with 89% accuracy

### Skin Disease Classifier,

January 2024 – February 2024

- Engineered and trained a CNN-based skin disease classification model for 20+ diseases using TensorFlow and Keras, achieving 90% accuracy on the DermNet dataset
- Built mobile app for instant image-based diagnosis, enhancing accessibility in rural health environments

## INVOLVEMENT EXPERIENCE

### Gofrugal Hackathon - Top 5 finalist

March 2022

- Developed and pitched an Android app to combat self-checkout fraud, placing Top 5 out of 100+ participants