

EDUCATION

- University of Georgia

Athens, GA

Master of Science in Computer Science; GPA: 3.7

Aug 2024 - Dec 2026(Expected)

Relevant Coursework: Advanced Algorithm Optimization, Software Engineering, Database, Machine Learning
- RMK Engineering College

Chennai, India

Bachelor of Science in Computer Science; GPA: 3.74

Aug 2020 - May 2024

EXPERIENCE

- Full Stack Developer (Graduate Student Assistant)

May 2025 - Present

University of Georgia - SER-CAT Lab

Athens, GA

Developing full-stack web application using Drupal 10 CMS, PHP, JavaScript, MySQL on Acquia Cloud Platform, migrating 10,000+ scientific records with Superfish jQuery navigation system

Collaborating with laboratory directors and faculty using Agile methodology to gather requirements, create user stories, and deliver prototypes through Dev/Test/Live workflow with Git version control

Building responsive design serving 19+ member institutions and 500+ researchers with improved navigation and accessibility using Acquia hosting infrastructure
- Machine Learning Researcher

Jan 2025 - May 2025

University of Georgia - Soybean Breeding and Genetics Laboratory

Athens, GA

Architected ML pipeline using Python, PyTorch, and scikit-learn, implementing two-stage pipeline architecture that processed 1,512 genomic samples across 10-year dataset (2015-2024) achieving 84% performance improvement

Implemented dimensionality reduction techniques (like PCA and autoencoders) to transform 10,000+ features into optimal subsets

Collaborated with postdoctoral researchers and faculty to build cross-platform ML system integrating Python and R, implementing GPU-accelerated workflows that reduced analysis time by 60%
- Cybersecurity Intern

Feb 2023 - May 2023

Corizo

Remote

Identified and resolved 50+ software vulnerabilities using BurpSuite, Nmap and manual code review

Developed Python automation scripts for security patch deployment, reducing manual effort by 40%

PROJECTS

- Sky Hop - React, Java, Spring Boot, MySQL, JWT

[GitHub] Mar 2025

Built full-stack airline booking system using Java, Spring Boot, and React, implementing JWT authentication and preventing 7 SQL injection attack types

Designed normalized MySQL database with 6 tables and 7 foreign keys using 3NF methodology, eliminating data redundancy across flight booking operations

Collaborated with 5-member team to develop RESTful APIs and secure payment processing, achieving 99% uptime during system demonstrations
- Cinema Booking System - Next.js, React, Node.js, MongoDB, Tailwind CSS

[GitHub] Feb 2025

Built scalable cinema booking platform using Next.js and Node.js, reducing checkout abandonment by 35% through multi-threaded transaction processing

Developed 9+ Mongoose data models with atomic reservation logic, eliminating 90% of seat overbooking conflicts and supporting dynamic pricing

Optimized performance with SSR/SSG strategies achieving 25% faster page loads and 40% code reduction through centralized API architecture
- Student Identification Management - Python, Flask, OpenCV

[GitHub] Jan 2025

Built and deployed facial recognition attendance system using Python, Flask, and OpenCV achieving 95% accuracy for professor's classes serving 180+ students

Developed RESTful API microservices with real-time video processing and SQLite optimization, reducing query loads by 90% with zero camera lock failures

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, JavaScript, TypeScript, SQL, HTML, CSS

Packages and Tools: Spring Boot, React, Next.js, Node.js, Express, Flask, Git, Docker, Kubernetes, REST APIs, CI/CD, MySQL, PostgreSQL, MongoDB