

# Chidalla Veda Varshith Sai

Atlanta, Georgia

<https://www.linkedin.com/in/chidalla-veda-varshith-sai-97150ba5>

(770) 652-2999

cvedava@emory.edu

## EDUCATION

**Emory University**, Atlanta, GA

May 2025

*Master of Science in Computer Science*

**Relevant Coursework:** Machine Learning, Algorithms, Ethical Data Science

**Awards:** Emory Scholarship Fall 2023

**Anil Neerukonda Institute of Technology and Sciences**, Andhra Pradesh, India

June 2021

*Bachelor of Technology, Information Technology, GPA : 3.7 / 4.0*

## TECHNICAL SKILLS

Programming Languages: Proficient in **Python, Java, C, MySQL, TypeScript, JavaScript, HTML, CSS**

Software: AWS, Google Cloud, Angular, GIT, Jira, Tableau, Docker, Kubernetes

## EXPERIENCE

**Tavant Technologies**, Bangalore, India

Sept 2021 - July 2023

*Software Engineer :*

- Designed and developed multiple Microservices for mortgage insurance (MGIC) web application using Java 8/11, PostgreSQL, Core Java, Angular, Camunda BPMN, Spring Boot, and GitLab
- Crafted and maintained user interfaces with Angular for an intuitive and responsive UI
- Gained hands-on expertise with PostgreSQL, REST APIs, GitLab, data structures/algorithms, and software engineering best practices through projects, code reviews, analysis, and pair programming
- Fixed defects and performed integration testing during development. Authored over 400 unit test cases with 85%+ code coverage. Initiated over 80 BDD tests to ensure robust API functionality
- Architected and maintained over 100 high-performance, scalable RESTful web services APIs utilizing a Web Client framework and following API best practices

## RESEARCH EXPERIENCE

**Emory Center for Digital Scholarship**, Atlanta, GA

Sept 2023 - Present

*Graduate Research Assistant :*

- Led development and ongoing maintenance of two large-scale projects, '[OpenWorldAtlanta](#)' and '[GeorgiaCoastAtlas](#)'
- Focused on cutting-edge technologies such as GIS, data science, web development, and cloud technologies to construct an interactive analytical platform exploring Atlanta for OpenWorldAtlanta project
- Objective of Georgia Coast Atlas is to create a comprehensive online educational venue for entire Georgia coastline
- Developing data visualizations in Python and contributing to databases by applying NLP methods to extract information from PDF documents, supporting digital scholarship projects using IIIF Server and Omeka platforms

## PROGRAMMING PROJECTS

**Crop Yield Prediction Using Machine Learning**, ANITS

February 2021

- Developed an AI-powered platform for analyzing historical crop data to provide actionable Information regarding types of crops to cultivate and optimal techniques to follow throughout cultivation season, enabling data-driven decision making
- Devised a predictive model to forecast crop yields by analyzing historical data, applying machine learning algorithms including linear regression, decision trees, and random forest to optimize accuracy
- Built a user interface with Flask to allow farmers to input data and view crop yield predictions, improving accessibility and usability

**Library Management System**, ANITS

October 2020

- Developed a book-lending web application using TypeScript, Angular, PostgreSQL, and Git version control. Application handles modules for book search, lending, fine calculation, and other library management functions
- Implemented design patterns and performed debugging during development. PostgreSQL database is hosted on AWS RDS
- Gained hands-on experience with TypeScript, Angular framework, database design, and source control

**Automated Plant Watering System**, ANITS

May 2019

- Designed and established an automated irrigation system to water plants based on soil moisture, humidity, and temperature data
- Constructed firmware with embedded C language to program NodeMCU microcontroller and integrate environmental sensors
- Streamed real-time sensor metrics to Thingspeak IoT cloud platform, Built a user interface with Thingspeak API to monitor conditions and control watering schedules remotely

## LEADERSHIP AND COMMUNITY ENGAGEMENT

**Team Leader | CSI Coding Club**, ANITS, India

Sept 2018 - June 2021

**COVID-19 Volunteer**, Visakhapatnam, India

## CERTIFICATIONS

- Certified Camunda Developer in Java, Tavant Technologies, India
- Certified Full Stack Developer, Tavant Technologies, India

June 2022

January 2022

## ADDITIONAL SKILLS AND INTERESTS

**Global Mindset:** Trilingual in English, Telugu and Hindi

**Interests:** Machine Learning, Biomedical Informatics, Cricket