

Spoorthi Sathya Narayana Murthy

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science

Expected May 2025

Cumulative GPA: 3.91/4.00

Relevant Coursework: Design and Analysis of Algorithms, Operating Systems, Design Patterns, Machine Learning, Programming Languages, Distributed Systems, Database, Programming in Web, Computer Security and Systems Programming

JSS Science and Technology University, Jayachamarajendra College of Engineering

Bachelor of Engineering in Information Science

August 2021

Cumulative GPA: 3.72/4.00

Relevant Coursework: Data Structures, Algorithms, Computer Networks, Software Engineering, Information and Network Security

TECHNICAL SKILLS

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

Database: MySQL, PostgreSQL, Microsoft SQL Server, Firebase, DynamoDB, MongoDB

Web Frameworks: Django, Flask, NodeJS, ReactJS, Figma, Bootstrap, Django Rest Framework, Tkinter

Version Control: Git, GitHub, Bitbucket

DevOps: Containers, Docker, Docker Compose, GitHub Actions, Jenkins

Additional: Linux, Postman, Apache, Google Suite, Truffle, Ethereum, Maven, Gradle, Agile, Scrum, Jira, Selenium, TDD, BDD

Certifications: AWS Certified Solutions Architect – Associate, The Ultimate React by Scrimba, Blockchain A-Z

PROFESSIONAL EXPERIENCE

Global Health Impact, Computer Programmer Intern | Binghamton, NY

October 2024 – Present

- Developing and debugging GHI's website and forecasting tool by creating REST APIs with Flask, testing them using Postman, and building a comprehensive test suite using pytest
- Enhancing the frontend with React and Material-UI to improve user experience and create dynamic, interactive components

Flow, Software Backend Engineer Intern | Remote

May 2024 – August 2024

- Designed and implemented REST APIs for Flow Turbo using Django Rest Framework, integrated third-party Salesforce APIs to enhance CRM capabilities, and optimized existing APIs, achieving an 80% faster response time
- Dockerized the backend app and used Docker Compose for multi-container management, eliminating cross-environment inconsistencies, while achieving CI automation through GitHub Actions and improved GitHub branch management

Sabre Corporation, Software Quality Assurance Engineer | Bangalore, India

February 2021 – October 2022

- Led the migration, testing and deployment of Sabre's application Command Center from Internet Explorer to Edge browser within the deadline before Microsoft ended its support for IE
- Spearheaded automation testing for Travel Bank and Agency Manager using Python, Java, Selenium and Cucumber clearing 80% of the team's test suite backlog
- Managed and executed regression testing in Linux VMs hosting the test suite, and migrated on-premises VMs to GCP compute engine

PROJECTS

Order Tracking System

January 2025 – Present

ReactJS, NodeJS, Express, MongoDB, HTML, CSS

- Developed a full stack web application to help my father track orders in his business using React for the frontend, Node.js with Express for the backend and MongoDB as the database
- Implemented CRUD operations and designed a responsive, user-friendly UI for tracking orders and inventory, which increased the order processing speed by 50%

Personal Assistant

May 2024 – August 2024

AWS Lambda, AWS Eventbridge, S3, DynamoDB, SNS, SES, HTML, CSS

- Created a serverless application to manage calendar events, to notify users on deadlines, using AWS Lambda and Event bridge and deployed the application using AWS S3 static hosting

Payment Tracker

January 2020 – May 2020

Java, Android, Android Studio

- Developed an Android application as part of a Software Engineering course, to track a family's financial commitments, including rent, bank payments, premiums and overall income
- Incorporated a cryptographic algorithm to encrypt financial documents stored in the database, ensuring data security and privacy
- Gained practical exposure to agile development practices, core software engineering principles and secure coding techniques

Camp Care

November 2019 – January 2020

Django, Django Rest Framework, Python, Database (MySQL), HTML, CSS

- Participated in a hackathon hosted by JSS Science and Technology University where I was a part of the team which designed and developed web application to help NGO's conduct medical camps smoothly which allowed doctors to register based on their availability and includes features to store patient history database