

Maria Jothish

mariaphilipj@gmail.com | <http://www.linkedin.com/in/maria-jothish> | <https://github.com/mariajothish> | 470-546-2777

EDUCATION

Georgia Institute of Technology

May 2026

Bachelors of Science in Computer Science

Concentration: Intelligence and Information Internetworks

Concepts: OOP, Computer Vision, Knowledge-based AI, Databases, Data structures, Design and Analysis of Algorithms, Linear Algebra

SKILLS

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

Development & Deployment: Render, FastAPI, IntelliJ IDEA, VSCode, Android Studio, MySQL Workbench, Docker, GDB

AI Integration: OpenAI API, Ollama-Mistral, Microsoft Copilot Studio

QA & Automation: Qtest, Tosca

Additional Proficiencies: Jira, Targetprocess, Trello, Figma, Canva, Lucidchart, Microsoft Office

EXPERIENCE

Cox Enterprises

Sandy Springs, Georgia

Test Automation Engineer Intern

May 2025 – Present

- Developed a full-stack solution to automate data extraction and transformation of **Workday** Excel reports by deploying a **FastAPI** backend on **Render** and integrating a Microsoft Copilot Studio **AI agent** frontend, *reducing test data generation time by 40%*
- Collaborated with 3 cross-divisional teams to develop Service Blueprints in Lucidchart that streamlined hardware provisioning, established an enterprise-wide standard, and identified integration points to *reduce operational costs by 66%*
- Earned **Tosca** Certification and utilized it to develop automation scripts that test critical integrations and perform regression testing on Workday processes following new releases.
- Analyzed the performance of 50+ automated Tosca scripts and identified an **86% decrease in manual testing effort**; authored a formal **ROI report** on these findings to leadership

Intelligent Platform for Crowdsourcing, GT VIP

Atlanta, Georgia

Undergrad AI Researcher

Jan 2024 – May 2025

- Developed **StudyBuzz**, a study group app that uses research-based matching algorithms to pair students with complementary characteristics for improved performance/grades
- Built backend infrastructure of StudyBuzz using **Python** and frontend using **JavaScript**, **HTML**, and **CSS**. Collaborated with a team of 3 to create wireframes of frontend using **Figma**
- Enhanced the algorithm by integrating **Ollama-Mistral**, enabling dynamic updates of weights given to characteristics based on each group's results at the end of a semester so that better groups may be formed the following semester
- Built and trained an AI chatbot using **OpenAI's GPT-3.5 Turbo**, integrated through Chatbase, to automatically generate diagrams from text input in YouTube's Terms & Conditions, enhancing user comprehension and interaction

Chick-fil-A

Alpharetta, Georgia

Employee, Front-of-house

June 2022 – Aug 2022

- Delivered end-to-end customer service, ensuring smooth operations and resolving customer concerns to maintain satisfaction
- Promoted teamwork and reliability by supporting colleagues as needed while upholding core values of humility, integrity, and honesty

Eye Level

Johns Creek, Georgia

Employee, Grader

Sept 2021 – Feb 2022

PROJECTS

SkillForge | UX Designer

May 2025 – June 2025

- Collaborated with a team of 4 to create brand's logo in **Canva**
- Designed wireframes, including the login, home, volunteer, and mentoring pages, using Figma, showcasing the frontend of the app

TI-Share | Developer

Jan 2025 – May 2025

- Collaborated in a team of 5 to improve Iris, a decentralized, peer-to-peer threat intelligence sharing system
- Redesigned architecture to chunk file transfers, preventing malicious peers on network from sending entire malware to a local peer
- Updated the Distributed Hash Table to display metadata of chunked files, so peers can download necessary information from a file rather than the entire file

RPM Test Solving AI Agent | Developer

Aug 2024 – Dec 2024

- Developed AI Agent that can solve Raven's Progressive Matrices Test which is used to measure human intelligence
- Utilized Python libraries, **Pillow** and **OpenCV**, for image processing and transformation. Used DPR/IPR approach to solve Test

Delivery Service Database | Developer

Aug 2024 – Dec 2024

- Designed an Enhanced Entity Relationship Diagram (**EERD**) and built a normalized relational schema to create an end-to-end database solution. Implemented **SQL** views, stored procedures, and database structures in MySQL Workbench to enable efficient data management, complex queries, and reporting

Dungeons and Dragons Game | Developer

Aug 2023 – Dec 2023

- Collaborated with a team of four to develop a Dungeons and Dragons game using **Java**, employing **Scrum** methodology for project management and **Git** for version control and collaborative development