

# Tanmay Arora

Orlando, FL

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## PROFESSIONAL SUMMARY

Detail-oriented computer science graduate student with a strong foundation in full-stack development, cloud technologies, and automation. Proficient in Java, Python and web development frameworks like Spring Boot, React.js and Node.js. Passionate about creating applications, solving technical issues, and improving systems and processes. A collaborative team player with a growth mindset, experienced in Agile development methodologies and always eager to learn new skills and adapt to change.

## EDUCATION

### University of Central Florida

Aug 2023 - May 2025

Master of Science, Computer Science (GPA: 4.00/4)

Orlando, FL

• **Coursework:** Design & Analysis of Algorithms, Machine Learning, Advanced Computer Architecture, Advanced AI

## PROFESSIONAL EXPERIENCE

### UCF-IT | Software Engineering Intern - Enterprise Infrastructure

Aug 2024 - Present

- **Developed** a secure, full-stack internal web application hosted on **GitHub Pages** and **Azure Functions**, enabling authorized users to query virtual environment cache data via API. Improved data retrieval efficiency and automated inventory data synchronization using **GitHub Actions**. For secured Access utilized **JWTs**, Azure Key Vault, and **OAuth**-based GitHub authentication.
- Assisted in migrating from **GitLab** to GitHub for the Enterprise Infrastructure team, improving version control and collaboration efficiency to support optimized operations.
- Developed Python scripts to automate the migration of **F5** data to **Terraform** and to gather critical system data from platforms such as F5 and GitLab, facilitating analysis for infrastructure optimization.
- Acquired hands-on experience with Terraform by shadowing senior team members to manage F5 load balancers in Azure, which strengthened infrastructure management and system availability.
- Collaborated with cross-functional teams to integrate cloud services and streamline internal processes, enhancing communication and supporting prompt incident resolution.

### University of Central Florida | Teaching Assistant

Jan 2024 - May 2025

- Created and graded assignments and quizzes while holding office hours to support undergraduate students, reinforcing effective problem-solving and communication skills.
- Led sessions to help students troubleshoot and implement algorithms in **Python**, promoting analytical skills in **problem-solving**.
- Instructed students on GitHub commands, coding best practices, and the utilization of collaborative platforms such as Replit and Google Colab.

### Business Web Solutions, India | Software Engineer Intern

Jul 2022 - Sep 2022

- Worked on the development and implementation of software solutions using JavaScript, React.js to meet client requirements.
- Developed the backend with Java in IntelliJ, optimized the website performance ensuring faster loading.
- Wrote clean, efficient, and well-documented code using HTML, CSS, Bootstrap & debugging tools.

## PROJECTS

### Cache and Memory hierarchy Simulator.

- Simulated a flexible cache module for any memory hierarchy level, implementing replacement, inclusion, and write policies.
- Evaluated performance, area, and energy using the SPEC-2000 benchmark.

### Fake News Detection Using Deep Learning

- Optimized CNN models for classifying real vs. fake news using NLP techniques.
- Implemented N-gram & sequence vectorization, improving accuracy over other baseline models.

### Stock Management System (ERP).

- Developed a platform for organizations to trace inventory, stock levels, sales, reports and track the purchasing process.

### Library Management System (LMS).

- Created a platform for students and teachers to access reading materials, borrow, return.
- Built the desktop app with Java Swing API and managed the MySQL database.

## TECHNICAL SKILLS

- **Languages:** Java, Python, C, C++, HTML, CSS, JavaScript
- **Frameworks & Libraries:** Spring, Spring Boot, Junit, Express.js, React.js, Angular.js, Node.js, NumPy, Pandas, Matplotlib, Bootstrap
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud Platforms & Containerization tools:** AWS, Docker, Kubernetes
- **DevOps & Tools:** Linux, CI/CD, Git, Terraform, Ansible, Maven, Gradle, VS Code, IntelliJ, RESTful APIs, Jira