

# Ajay Sommi

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## EDUCATION

### University of Florida – Gainesville, FL

Graduation: December 2026

*Bachelor of Science in Computer Science*

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Information and Database Systems, Linear Algebra, Artificial Intelligence Fundamentals, Discrete Structures, Programming Language Concepts
- Certificates: AI Fundamentals & Applications, Microsoft Azure Fundamentals, Microsoft Technology Associate

## RELEVANT EXPERIENCE

### Software Engineering Intern

May 2025 – November 2025

JM Family Enterprises – Deerfield Beach, FL

- Built a C#/.NET backend that queries Azure Application Insights via REST API, parses logs from over 100k service events, and outputs actionable telemetry for an interface monitoring vehicle service operations across JM Lexus and Toyota dealerships, implementing reliable safeguards against race conditions in periodic data refresh cycles.
- Designed an identity-validation workflow using Azure Function Apps (.NET/C#) that queries Microsoft Entra through Microsoft Graph API and retrieves Salesforce data via a MuleSoft proxy, performing field-level comparisons, detecting access-policy inconsistencies, and outputting clear exception reports for the team to review.
- Supported AI Foundry initiatives using Model Context Protocol (MCP) to develop GPT-based agents with Retrieval-Augmented Generation (RAG) pipelines that surfaced insights from JM Lexus and enterprise event data. Enhanced response quality by 30% through prompt tuning and integrating post-processing filters to reduce hallucinations.
- Participated in daily Agile standups to report progress, resolve blockers, and align with engineering teams.

### Software Engineering Intern

June 2024 – August 2024

Toyota – Jacksonville, FL (Southeast Toyota Distributors)

- Engineered a Python solution using Azure SDK and REST API to extract 1000+ URLs from Azure Blob Storage, retrieve files, and upload them to SharePoint, streamlining document management and saving 350+ hours annually.
- Developed SQL queries to analyze tire data for over 51,000+ Toyota/Lexus vehicles from Amazon RDS, generating 21+ reports, reducing warranty claims by 20% and saving over \$150k by preventing costly tire package recalls.
- Managed and automated tracking for 160+ accessory projects, including client communication, agile framework development, implementation, and testing, streamlining project management and enhancing data visibility by 30%.
- Led the creation of a custom entry form with 14 parameters, automating team charter population with VBA, and developed a Power BI dashboard for real-time accessory tracking, slashing entry time by over 500%.

### AI Cybersecurity Researcher

May 2023 – May 2024

Florida Institute for Cybersecurity Research – Gainesville, FL

- Conducted research on Large Language Model (LLM) vulnerabilities, deploying 10+ adversarial attacks (e.g., prompt injection, DoS, content manipulation), and developed mitigation strategies like input sanitation and policy enforcement, enhancing security protocols for 50+ LLM-integrated plugins.

### Software Engineering Intern

March 2022 – January 2023

Robotics For All – Palo Alto, CA (Remote)

- Automated 15+ backend processes using JavaScript and Apps Script, streamlining data validation, integration, and email workflows to improve accuracy by 40% and enhance engagement for 100+ parents with timely course updates.

## RELEVANT PROJECTS

### Vehicle Fatality Analysis Dashboard

November 2024 – January 2025

Contributor – University of Florida

- Built a full-stack web app using React, C++, and Chart.js to ingest, process, and visualize 26 years of NHTSA crash fatality data by make/model, enabling instant trend comparisons and interactive insights across 500+ vehicle models.

## SKILLS

- **Languages:** Python, C, C++, C#, Java, JavaScript, Apex, R, SQL, DAX, Power Query, VBA, ARM Assembly
- **Technologies:** JetBrains IDEs, Git, Power BI, GDB, Azure DevOps (CI/CD), MCP, Node.js, JSON, JWT, Oracle, Pandas, REST API, Microsoft Azure, Amazon RDS, Cosmos DB, Salesforce, LWC, Microsoft Graph, .NET, React.js