Achuthanand Madanapalli

(720) 589-6415 ▪ amadanapalli6166@gmail.com ▪ US Citizen

EDUCATION

George Mason University (GMU) – Honors College, Fairfax, VA   **Graduation: December 2025**
Bachelor of Science: Computer Science (Major) and Minor in Business
Relevant Coursework: Python, C Language, Java Data Structures, Marketing, Management, Research, Operating Systems, Software Engineering, Statistics, Relational Databases,
Dean's List Spring 2024, Fall 2024, and Summer 2023 and 2024   GPA: 3.60

Langley High School, McLean, VA   **Graduation Year: 2022**

SKILLS

Java, Python, React, NextJS, Typescript, HTML, JavaScript, C, TensorFlow, Sci Kit learn, Pandas, SQL, Unix, Packet Tracer, Research, Unit testing (Junit, Jest, Vitest), Agile

HONORS AND CERTIFICATIONS

- **AWS Cloud Practitioner Certification** - Learning how to navigate through Amazon Web Services.
- **Azure AI Fundamentals** - Learning how to navigate through Azure AI services.
- **Headstarter Fellowship** – Made 2 projects that helped me learn about Next.js and React independently
- **Inspirit Innovators AI Innovation Fellowship Certification** - Machine Learning (ML) Track - Learning about the mechanics of ML and creating a project using logistic regression, CNN, sklearn, pandas, and TensorFlow.

RESEARCH and PROJECTS

- **Artificial Intelligence Bias is a Growing Problem**
  - Investigated examples of how to overcome the negative effects of AI and documented onto a research paper
- **Artificial Intelligence's Impact on the Medical Field**
  - Explored and presented ethical uses of AI in the medical field with its application and documented onto a research paper
- **Project 'SpendFlow'**
  - AI-powered expense tracker that uses Next.js, MongoDB, and OpenAI to provide simplified budgeting and personalized financial insights
  - Secure authentication with Clerk, a responsive and intuitive UI, and AI-driven analytics to deliver spending recommendations
  - Used Tailwind CSS for design improvements with futuristic aesthetic
- **Project 'Cancer Cell Identifier'**
  - Programmed a logistic regression model that detects whether a cell picture is cancerous or benign using NumPy libraries, Pandas, and sklearn
  - Project involved 86% accuracy during the making of the model with training and testing datasets
- **Project 'Inventory Tracker'**
  - Built a full-stack pantry tracker using Next.js and Firebase Firestore to help users manage their food inventory
  - Supports adding, categorizing, and tracking items
- **Project 'GradeMe'**
  - Collaborated with a team across three Agile sprints to develop GradeMe, a grade calculator enabling account creation and grade storage for multiple classes
  - Took lead role in implementing core business logic and website functionality, ensuring seamless user experience and data accuracy
  - Utilized HTML, CSS, and JavaScript for dynamic frontend development, integrating Jest for rigorous unit testing to validate critical application features

EXPERIENCE

- **Undergraduate Teaching Assistant – George Mason University (8 hrs/week)**   **August 2024 – Current**
  - Helped students of the class CS 321 (Software engineering) with problems they came across
  - Created JAR files and database integrated models for students to use in projects
  - Provided class with amenities needed to make the material easier to learn, like UML diagrams
- **ICON Service Associate - Showplace Icon Theatres (24 hrs/week)**   **August 2022 – August 2023**
  - Aided customers with problems regarding services at the theatres, like technology and following procedures
- **Sales Representative - Vector Marketing (35 hrs/week)**   **June 2021 – August 2021**
  - Marketed Cutco products on behalf of Vector Marketing to customers
  - Sold approximately $2,400 worth of Cutco products within a month
- **HackOverflow Marketing Head – George Mason University**
  - Responsible for marketing and conducting hackathons for students
  - Supported teams with projects related to HackOverflow

https://www.linkedin.com/in/achuthanand-madanapalli-83a6a328a/