

Upamanyu (Upi) Shanker

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Education

Florida State University

Tallahassee, FL

Bachelor of Science in Computer Science, Minor in Mathematics

Expected Graduation: 2028

- **GPA:** 3.7/4.0
- **Relevant Coursework:** Introduction to Programming in C++/UNIX, Data Structures and Algorithms, Discrete Math I, Calculus I, Calculus II

Experience

Front-End Web Developer

Feb. 2025 – Present

Voxel Labs, LLC

Tallahassee, FL

- Designed & developed a responsive website using **HTML, CSS, JavaScript**, ensuring seamless navigation and consistent branding
- Integrated interactive features like **form validation** and **real-time updates** using **Javascript** to enhance user experience
- **Deployed & secured** the site with **AWS (S3, Route 53, CloudFront, API Gateway, Lambda, SSL encryption)**, optimizing performance and security

Data Analytics Extern

Nov. 2024 – Present

Beats By Dre

Remote

- Conducted **quantitative and qualitative analyses** of **consumer insights** to uncover trends in behavior and preference
- Leveraged **Python and SQL** for **data wrangling** and applied **machine learning techniques** such as **sentiment analysis** and **K-means clustering** to analyze customer reviews from online sources
- Designed an executive presentation featuring **interactive dashboards** and **visualizations** to support product management in prioritizing features and refining go-to-market strategies

Research Assistant

Oct. 2024 – Present

Florida State University

Tallahassee, FL

- Developed a **Python script** to categorize duplicate titles in a **SQLite database**, **reducing manual data entry by 75%** and automating CSV report generation
- Created a SQLite database using **Natural Language Processing (NLP)** and **TF-IDF vectorization** to automatically analyze academic papers and developed a **Flask-based web application** that queries the database

Projects

Grade Database | *Python, SQLite*

Sep. 2024 – Present

- Developed a comprehensive Grade Management System using **Python and SQLite**, implementing **secure user authentication**
- Created an intuitive CLI interface **reducing user input errors by 90%** through input validation and clear user prompts

Technical Skills

Languages: Python, C, C++, SQL, JavaScript, HTML, CSS

Developer Tools: Git, GitHub, VS Code, UNIX, AWS

Libraries: Matplotlib, scikit-learn, pandas, Flask, NumPy

Certifications

GitHub Foundations, GitHub

Dec. 2024

Software Engineering Job Simulation, Electronic Arts

Nov 2024

- Patched a bugfix and optimized the Sims 4 codebase by implementing an **improved data structure**

Artificial Intelligence Fundamentals, IBM

Aug. 2024

Building Trustworthy AI Enterprise Solutions, IBM

Aug. 2024

Data Fundamentals, IBM

Aug. 2024