pp.

ANMOL BARUWAL

Nashville, Tennessee, United States | 413-273-9005 | anmolbaruwal01@gmail.com | Github | LinkedIn

EDUCATION

Fisk University 2021 - 2025

Bachelor of Science: Computer Science

GPA: 3.84 / 4.0

WORK EXPERIENCE

Apple (San Diego, CA) | Engineering Intern

May 2024 - August 2024

- Developed and optimized system software for AirPods across multiple development platforms, applying TDD principles.
- Identified and resolved a critical CI/CD pipeline bug that bottlenecked over 200 engineers, reducing build times by 5% and improving team efficiency.
- Coordinated with 5+ cross-functional teams to align on feature updates and ensure the timely delivery of software releases.

Maroon (Nashville, TN) | Software Developer Intern

June 2025 - September 2025

- Architected and implemented a real-time notification process for an Android/iOS dating platform leveraging Python (FastAPI), Java, AWS services (SNS, Lambda, DynamoDB).
- Managed the development lifecycle, encompassing API engineering and automated testing, accelerating product validation by 20%.
- Developed a **robust automation suite** in Python, integrating seamlessly with the CI/CD workflow to ensure system reliability.

Vanderbilt University (Nashville, TN) | Software Engineering Intern

Jan 2025 - April 2025

- Automated IT incident management by integrating JIRA ticketing, Statuspage, and MS Teams APIs, reducing manual effort by 30%.
- Designed and developed a **RESTful API-driven** deduplication **mechanism**, refining the resolution process.
- Engineered dynamic component mapping within an Agile framework, boosting real-time incident transparency by 50%.

Vanderbilt University (Nashville, TN) | Web Development Intern

Feb 2024 - April 2024

- Revamped Vanderbilt University's IT website, enhancing accessibility and user experience through updated design and structure.
- Improved the site's user interface to align with VU's latest branding, resulting in a modern, intuitive, and visually appealing design.
- Developed enhanced **self-service features**, including password updates and resets, leveraging **HTML** and **JavaScript** to improve user engagement and efficiency by **45%**.
- Collaborated with the design team using **Git** and **agile workflows** to integrate key features into the website, ensuring **cohesive functionality** and maintainability.

PROJECTS

DocuRAGJuly 2025 - Present

Engineered a RAG pipeline enabling semantic search and Q&A over PDFs using OpenAI embeddings and FAISS vector search.

- Built intelligent caching and **conversation memory** system implementing **MD5 hash-based** cache validation, maintaining 10-interaction context history, and **reducing processing time by 50%.**
- Developed a **modular Python architecture** for PDF processing and metadata tracking—paired with a **comprehensive testing** and evaluation framework using **RAGAS** and **LangSmith datasets** to ensure scalability, reliability, and performance optimization.

AI Profile Builder March 2025 - July 2025

- Architected and deployed a full-stack, **serverless application** on **Google Cloud**, establishing an automated CI/CD pipeline with Cloud Build for rapid **feature delivery**, showcasing understanding of **microservices-oriented** architectures.
- Integrated the **OpenAI API** to **transform** unstructured resumes into **structured JSON** and rewrite content into high-impact, **STAR-method** achievements, enhancing users' job application quality.
- Built a polished, intuitive frontend with **React** and **TypeScript**, featuring a drag-and-drop uploader and **real-time feedback**.

Earthquake Aftershock Prediction Model

Jan 2023 - May 2025

- Engineered an ETL pipeline to process and analyze large-scale USGS GeoJSON earthquake data.
- **Utilized Pandas** and **GeoPandas** for feature engineering during Exploratory Data Analysis **(EDA)** to classify earthquakes as mainshocks or aftershocks.
- Achieved 83% prediction accuracy by implementing and validating SVM and Logistic Regression models.

SKILLS

Programming Languages: Python, Java, C++, JavaScript Web & Frontend: React, FastAPI, TypeScript

Cloud & DevOps: GCP, AWS (Lambda, EventBridge, SNS), Docker, CI/CD, Linux, Bash, Git

Database & Backend: PostgreSQL, RAG, Prisma, Pandas, Numpy, Scikit-Learn