

# ANMOL BARUWAL

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## WORK EXPERIENCE

### Five Fold University (Nashville, TN) | Full-Stack Developer

May 2025 - Present

- Built a comprehensive **educational website**, serving a global student body across **12+ countries** with an integrated enrollment system.
- Implemented advanced **LMS integration**, managing course catalogs, academic programs, student records, and **multi-role user authentication** for international faculty and staff.
- Developed responsive UI/UX design, **SEO strategies**, and **Google Analytics** integration to track performance across different platforms.
- Collaborated with international stakeholders to deploy **multi-language** contact systems, automated inquiry routing, and scalable **database architecture** supporting complex educational operations.

### Apple (San Diego, CA) | Engineering Intern

May 2024 - August 2024

- Developed and **optimized system software** and **iOS UI** for **AirPods** across multiple development platforms, applying **Test-Driven Development (TDD)** principles to ensure high-quality code.
- Identified and **resolved** a critical **CI/CD pipeline** bug that bottlenecked over **200 engineers**, **reducing build times by 5%**.
- Coordinated with **5+ cross-functional teams** to align on feature updates and ensure the timely delivery of software releases.

### Maroon (Nashville, TN) | Startup | Software Developer Intern

June 2025 - September 2025

- Architected and implemented a **real-time notification process** for an Android/iOS platform using **Java** and leveraging **AWS services (SNS, Lambda, DynamoDB)** and API engineering.
- **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** in **agile methodology**, refining the resolution process.
- Streamlined data flow and increased **real-time incident transparency by 50%** through dynamic mapping using ETL tools.

### 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** leveraging **HTML** and **JavaScript** to improve user engagement and efficiency by **45%**.
- Collaborated with the design team in **agile workflows** to integrate key features into the website, ensuring **cohesive functionality**.

## PROJECTS

### DocsRAG

Feb 2025 - June 2025

- Built a **Career Intelligence Platform** to extract evidence-based claims from documents, enabling deterministic analysis for **skill gaps, progression tracking, and multi-context value alignment**.
- Engineered a **structured extraction pipeline** utilizing **LLM** and **OCR** to parse documents into **traceable, confidence-scored claims** with full source provenance for **semantic classification**.
- Implemented a **hybrid RAG architecture** (FAISS, BM25, cross-encoder reranking, Langchain) with **MD5-based caching** to achieve sub-second Q&A over extracted claims, **reducing processing latency by ~50%**.

### TechBridge Learning

Aug 2024 - Present

- Built a full-stack **privacy-first AI Assistive Technology (AT) platform** integrating over **68+ trusted data sources** using **OpenAI API embeddings**, ensuring compliance (**FERPA/COPPA**) with no PII storage.
- Engineered a high-performance ingest and semantic search mechanism; cleaned/chunked/vectorized content and tuned **Pgvector IVFFlat** for sub-**200 ms query latency**, directly supporting efficient data discovery.
- Delivered **role-based personalization** using web front-end technologies like **TypeScript** and **React** to help with **matching AT tools**.
- Shipped with high-quality standards, including **95%+ test coverage** (Vitest, Playwright) and Vercel **CI/CD** integration.

## SKILLS

Programming Languages: Python, JavaScript, HTML5, SCSS

Web, Cloud & DevOps: React, FastAPI, Milvus, CI/CD (Vercel, GitHub/GitLab), AWS (Lambda, EventBridge, SNS), GCP, Jira

Database & Backend: PostgreSQL, Pytorch, Snowflake, Docker, RAG, Pgvector, FAISS, npm, Prisma, Pandas, Numpy, Scikit-Learn

## EDUCATION

Springfield College (GPA: 4.0/4.0)

2021 - 2023

Fisk University (GPA: 3.84/4.0)

2023 - 2025

Bachelor of Science: Computer Science

GPA: 3.84 / 4.0