

ANMOL BARUWAL

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WORK EXPERIENCE

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.

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 platforms.
- Deployed multi-language systems, automated inquiry routing, and scalable **database architecture** supporting complex operations.

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 (S3, Lambda, Kafka)** 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 in **Snowflake** by improving **ETL** process and increased 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** leveraging **HTML** and **JavaScript** to improve user engagement and efficiency by **45%**.

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: Java, Python, JavaScript, HTML5, CSS

Web, Cloud & DevOps: React, TypeScript, Snowflake, CI/CD (GitHub/GitLab), AWS (Lambda, S3), GCP, Jira

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

EDUCATION

Fisk University (Bachelor of Science: Computer Science) (GPA: 3.84/4.0)

Graduated : May 2025