

Arjun Vellanki

Full-Stack Software Developer

Manassas, VA

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SUMMARY

Detailed-oriented Full-Stack Developer with 1 year of professional experience building scalable web applications. Experienced in integrating LLM-powered features into user-facing products. Proficient in JavaScript, Python, and modern DevOps practices, with a track record of owning features from development through deployment. Focused on building intelligent, high-impact technology solutions that combine strong software engineering with practical AI applications.

EXPERIENCE

CACI

• *Software Developer*

Reston, VA

July 2024 - June 2025

- **HighView Lite:**

- * Contributed to the productization of HighView Lite, a classification-controlled document management system (.NET C#, PostgreSQL).
- * Resolved core backend and database defects and implemented new features in an Agile environment.
- * Designed and built a comprehensive unit testing framework, enabling automated regression testing and improving application stability.

- **Administration Website:** Supported the initial design and development of a responsive full-stack Angular web application, which connected with the core HighView Lite application. The app allows admin users to access the platform with elevated privileges to modify content within the system, such as user information and assigned groups, group permissions, document classes and their information, and more.

CACI

• *Software Developer Intern*

Reston, VA

May 2023 - August 2023

- **HighView Lite Search:** Researched and documented Elasticsearch capabilities to evaluate its suitability as a database for HighView Lite. Developed a Python app showcasing key features such as full-text search, file parsing, and text highlighting.

PROJECTS

- **Notara:** An AI-powered full-stack desktop application (Tauri, React, Rust) to centralize student course management, scheduling, and document access. Integrated LLM-powered features for syllabus parsing and natural language querying of course materials. Implemented semantic search using embeddings stored in a vector database to enable context-aware document retrieval (RAG pipeline). Deployed locally hosted Gemma 3 embedding and inference models via Ollama for all AI functionality. Leveraged AI-assisted development tools (Cursor) to accelerate feature implementation and iteration.
- **Self-Hosted Linux Server:** Running Linux on a used laptop to provide a personal cloud service for multi-user file syncing and file sharing. Utilizes technologies such as Cloudflare DNS and Argo Tunnels, Nginx, Docker, and Cron.
- **MyMovieList:** A full-stack project that allows users to view movie information and track their watched movies, while also allowing admin users to moderate content posted to the site. This is a fullstack project built with JavaScript (React) a Python API backend, and deployed with Docker.
- **openDSAVisualizer:** A full-stack project for the Computer Science department in Virginia Tech that provides visualizations of students' study sessions for instructors to assess the effectiveness and performance of their courses. It integrates with openDSA to visualize existing student data. Built with JavaScript (React), Python, and Docker.
- **WILTTSpotify:** A Python project which uses Spotify's API to automatically populate songs read from a .csv file to a playlist. It creates/adds to the current semester's playlist, and does so by using either Spotify links or Artist Name and Song Title. The program was created for the professor of a music course at Virginia Tech.

EDUCATION

Virginia Tech

• *Bachelor of Science in Computer Science; Summa Cum Laude; GPA: 3.80*

Blacksburg, VA

Aug. 2020 – May. 2024

SKILLS

- **Languages:** JavaScript, TypeScript, C#, C, Python, Java, Rust, SQL
- **Technologies:** React, Angular, Tauri, Docker, .NET, Git
- **Databases:** PostgreSQL, SQLite, MongoDB
- **AI & Machine Learning:** LLM Integration, Retrieval-Augmented Generation (RAG), Vector Databases, LLM Deployment (Ollama), Gemma 3, Embeddings, AI-Assisted Development (Cursor)
- **Applications:** Jira, Confluence, Elasticsearch, Logstash, Kibana, GitHub, GitLab
- **OS:** Linux, Windows, Mac

LINKS

- **Portfolio:** arjunvellanki.com
- **GitHub:** github.com/arjunv905
- **Linkedin:** www.linkedin.com/in/arjun-vellanki

OTHER

- **Citizenship:** United States