

VASANTH ANBUKUMAR

Software Engineer | Full Stack · Open to relocation

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SUMMARY

Computer Science graduate who builds and ships full-stack web applications: user interfaces, backend APIs, databases, and the automated tests that keep them working. Currently on a small team shipping commercial software, working across the front end, backend services, and releases. Interested in practical software engineering, reliable systems, and tools people actually use.

EXPERIENCE

Nice Guy IT | Software Development & Infrastructure | Remote

Mar 2026 – Present

Junior Software Developer (full-time)

- Built and shipped the admin web application for a multi-tenant SaaS website builder, including its content authoring tools, versioned publishing with page history, and live preview.
- Led engineering work on the professional-services automation platform, setting priorities in daily planning, owning the shared issue backlog, and guiding contributors through code review and merges.
- Designed and delivered billing, contract, scheduling, and SLA-tracking subsystems backed by PostgreSQL, covering recurring invoicing, contract hour balances, and business-hours-aware breach alerts across 13 repositories.
- Secured three products with Google OAuth 2.0 and OIDC sign-in, login rate limiting, CORS and CSP policy, and constant-time verification of payment webhook signatures.
- Established automated testing from scratch, writing end-to-end specs in Playwright alongside unit and integration tests, then gated CI on them so regressions failed the build.
- Automated recurring code review by building an internal audit platform that scans the codebase on a schedule and files findings to the issue tracker, with an AI verification step that discards anything it cannot substantiate.

Smartsoft International Inc. | Remote

Jun 2025 – Present

Software Analyst Intern

- Developed a Python and FastAPI service that ingests TXT, PDF, and DOCX files, chunks their content, generates embeddings through the OpenAI API, and stores and queries them in a vector database to power semantic search.
- Reduced ingestion time by parallelizing document loading and batching embedding calls while preserving source metadata and ordering, and structured the ingestion layer as modular object-oriented components so new formats could be added without rewriting the service.

PROJECTS

Vybe: Music Collaboration Platform | github.com/COSC481W-2025Fall/Vybe

Aug 2025 – Dec 2025

Next.js, React, TypeScript, PostgreSQL, Supabase, Spotify API, YouTube API, Playwright

- Led a seven-person Scrum team through a semester-long capstone, running sprint planning and backlog refinement while owning the backend and authoring 160 of the team's 323 commits.
- Implemented RESTful APIs and PostgreSQL data models for social groups, shared playlists, account settings, and music-library workflows.
- Integrated the Spotify and YouTube APIs for library import and export, and built the authentication callbacks and middleware behind shared account access.

Automated Contract Review System

2026

Self-directed prototype · Python, REST API, Tesseract OCR, PDF and DOCX parsing, document segmentation

- Built an offline-first system that compares executed contracts against approved templates clause by clause, pairing layout-aware OCR for scanned documents with automated risk scoring and human review of every flagged deviation.
- Designed it to be auditable end to end: each finding traces back to a specific page, paragraph, and line, and results are written to an append-only log with cryptographic chaining.

Additional projects at vas-anbu.dev, including a Windows system monitor in C#/ .NET and a multi-service care-coordination suite.

EDUCATION & CERTIFICATION

Georgia Institute of Technology | M.S. Computer Science (OMSCS), online

Begins Fall 2026

Eastern Michigan University | B.S. Computer Science

Aug 2023 – Dec 2025

Coursework: Data Structures & Algorithms, Object-Oriented Programming (Java), Operating Systems, Computer Networks, Web Development · Dean's List

Certification: PCAP, Certified Associate in Python Programming, Python Institute (2026)

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL, Rust, C#, C/C++

Front End: React, Next.js, HTML5, CSS3, Tailwind CSS, responsive and accessible UI (WCAG)

Back End & Data: RESTful API design, FastAPI, Flask, axum, object-oriented design, OAuth 2.0 / OIDC, PostgreSQL, Supabase, SQLite

Testing, CI/CD & Tools: Playwright, Vitest, unit and integration testing, CI pipelines and quality gates, Docker, Git, GitHub, Agile / Scrum, Linux

AI & Cloud: Coding agents, Generative AI concepts, OpenAI API, retrieval-augmented generation, vector databases, Google Cloud Platform, AWS, Azure AI Document Intelligence