Pynthamil Pavendan

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Education

Vellore Institute of Technology — Vellore, Tamil Nadu
Bachelor of Technology in Computer Science and Engineering; CGPA: 9.18/10 — *Expected May 2027*

Experience

Frontend Developer Intern — May 2025 – July 2025
ScientiFlow — *Remote*

- Designed and developed an interactive drag-and-drop interface, cutting visualization creation time by 40%
- Engineered CSV/JSON pipelines with schema validation to process 10,000+ row datasets without performance lag
- Implemented CSV/JSON export with a standardized layout, reducing formatting inconsistencies by 60%
- Collaborated with cross-functional teams through technical reviews and system architecture planning

Projects

Craftr Docs | *Next.js, TypeScript, React* — September 2024 – Present

- Built a Notion-style block editor combining Google Docs functionality with Figma's design capabilities
- Implemented drag-and-drop block system enabling users to seamlessly build rich documents with visual design elements
- Engineered modular architecture supporting multiple block types (text, images, code, design components)
- Built responsive editing interface enabling users to create and style documents with immediate visual updates

Resume Roaster | *React.js, Node.js, Google Cloud Platform, OAuth, Gemini API* — June 2024 – Present

- Developed an AI-powered resume analysis platform integrating Gemini API with optimized async processing
- Improved system throughput by 80% via Google OAuth authentication and optimized file handling with GCP Storage APIs
- Built full-stack application with React frontend and Node.js backend deployed on GCP

Luma | *Next.js, Supabase, Gemini API* — March 2024 – August 2024

- Built an AI-powered error solver where developers paste errors to get instant diagnosis and tap-to-copy fixes
- Implemented notebook, focus timer, playlist, and goal tracker modules to support developer productivity
- Developed a community error board backed by Supabase for collaborative troubleshooting and knowledge sharing

Fraud Detection System | *Python, Flask, Machine Learning, Git LFS* — January 2024 – March 2024

- Built Flask web application for serving real-time fraud predictions using trained machine learning model
- Implemented data preprocessing pipeline and model deployment architecture handling compressed training data
- Utilized Git LFS to efficiently manage and version large model files, encoders, and preprocessed datasets
- Developed RESTful API endpoints for seamless integration with frontend fraud detection interface

Technical Skills

Languages: Python, Java, C++, JavaScript, TypeScript, C, Rust, HTML/CSS
Frameworks: React.js, Next.js, Express.js, Flask, React-Native, Textual, Ratatui
Developer Tools: Git, GitHub, Google Cloud Platform, AWS, Vercel, Figma, Bash, Unix/Linux
Technologies: RESTful APIs, OAuth, JSON/CSV processing, MongoDB, Supabase

Leadership & Extracurriculars

Junior Core Member — May 2025 – Dec 2025
Association for Computing Machinery (ACM) VIT — *Vellore, Tamil Nadu*

- Contributed to Hermes secure communication project by implementing a TUI with the help of RATATUI framework under technical mentorship
- Supported InspiHer women-in-STEM initiative by designing cross-functional digital campaign materials