

EMIL WILLIAM

FRONTEND ENGINEER • UI/UX SPECIALIST

[GitHub](#) [LinkedIn](#) [Portfolio](#)

PROFILE

Frontend Engineer specializing in building secure, high-performance web applications with a focus on **design-to-code parity**. Proven expertise in bridging the gap between mission-critical systems and premium, high-fidelity user interfaces utilizing Framer Motion and GPU-accelerated transitions.

SELECTED PROFESSIONAL PROJECTS

E-commerce & Creative Infrastructure (Dodox)

Tech Stack: Next.js, TypeScript, Node.js, MongoDB, Framer Motion

- Refactored backend pricing architecture (Livora) to separate **Subtotal and GST calculations**, implementing **Paise-based integer math** to ensure 100% historical accuracy.
- Re-engineered **Role-Based Access Control (RBAC)** middleware for Admin and Kitchen flows, hardening API security while maintaining frontend compatibility.
- Developed a high-performance Hero Reveal utilizing **Anchor-Lock Architecture** and GPU-accelerated spring transitions to achieve sub-pixel precision.
- Achieved **1:1 parity** with Figma easing curves via Framer Motion parameters for high-fidelity component transitions across multiple studio modules.

TECHNICAL PROJECTS

Cinera (macOS Application)

[Video Demo](#)

Tech Stack: Tauri, Rust, React, TypeScript, Tailwind CSS

- Conceptualized and designed a native macOS application for movie discovery, focusing on a clean, performant, and platform-consistent UI/UX.
- Architected the user workflow from initial search to detailed content view, solving challenges in data presentation and state management.

Spotify Dashboard

[Live Demo](#)

[GitHub Repo](#)

Tech Stack: React, Vite, Tailwind CSS, Spotify API

- Engineered a full-stack music analysis dashboard with secure Spotify API integration for user authentication (OAuth 2.0) and data visualization.
- Implemented a custom AI feature using the Google Gemini API to generate sophisticated, narrative-based analyses of a user's unique listening habits.

Expense Splitter Pro

[Live Demo](#)

[GitHub Repo](#)

Tech Stack: React, TypeScript, Vite, Tailwind CSS, Framer Motion

- Developed a feature-rich Single-Page Application (SPA) with advanced state management to simplify group expense tracking and settlements.
- Implemented flexible splitting logic (equal/custom amounts) and utilized browser local storage for persistent session data.

SKILLS

Full-Stack Languages

JavaScript (ES6+), TypeScript, Node.js, HTML5, CSS3, Rust (Basics)

Frameworks & Libraries

React, Next.js, Vite, Tauri, Express.js, Headless UI

Architecture & Security

RBAC Security, Middleware Hardening, MongoDB (Schema Design), Financial Logic (GST/Tax)

Premium UI/UX

Tailwind CSS, Framer Motion (Physics-based), Performance Optimization (Web Vitals), Responsive Design, Native App Development

Engineering Tools

Git, GitHub Actions, AI-augmented Peer Review, Figma, Xcode, VS Code

EDUCATION

Bachelor of Computer Applications (BCA)

AMRITA VISHWA VIDYAPEETHAM

2022 – 2025

Higher Secondary Education

AMRITA VIDYALAYAM

2017

CERTIFICATIONS

CCNAv7: Introduction to Networks

Cisco Networking Academy

Completed: June 2024

Programming Essentials in Python (PCAP)

Cisco Networking Academy

Completed: February 2024

Capstone MOOC for Android App Development

Vanderbilt University (Coursera)

Completed: January 2025

Responsive Website Development and Design Specialization

Coursera

Completed: June 2025