

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**[cite: 4]. Proven expertise in bridging the gap between mission-critical systems and premium, high-fidelity user interfaces utilizing Framer Motion and GPU-accelerated transitions[cite: 5].

SELECTED PROFESSIONAL PROJECTS

Technical Residency — Dodox

Kochi, India (Remote) • Dec 2025 – Jan 2026

Tech Stack: Next.js, TypeScript, Node.js, MongoDB, Framer Motion [cite: 8]

- Refactored backend pricing architecture (Livora) to separate **Subtotal and GST calculations**, implementing **Paise-based integer math** to ensure 100% historical accuracy[cite: 9].
- Re-engineered **Role-Based Access Control (RBAC)** middleware for Admin and Kitchen flows, hardening API security while maintaining frontend compatibility[cite: 10].
- Developed a high-performance Hero Reveal utilizing **Anchor-Lock Architecture** and GPU-accelerated spring transitions to achieve sub-pixel precision[cite: 11].
- Achieved **1:1 parity** with Figma easing curves via Framer Motion parameters for high-fidelity component transitions across multiple studio modules[cite: 12].

TECHNICAL PROJECTS

Cinera (macOS Application)

[Video Demo](#)

Tech Stack: Tauri, Rust, React, TypeScript, Tailwind CSS [cite: 16]

- Conceptualized and designed a native macOS application for movie discovery, focusing on a clean, performant, and platform-consistent UI/UX[cite: 17].
- Architected the user workflow from initial search to detailed content view, solving challenges in data presentation and state management[cite: 18].

Spotify Dashboard

[Live Demo](#)

[GitHub Repo](#)

Tech Stack: React, Vite, Tailwind CSS, Spotify API [cite: 22]

- Engineered a full-stack music analysis dashboard with secure Spotify API integration for user authentication (OAuth 2.0) and data visualization[cite: 23].
- Implemented a custom AI feature using the Google Gemini API to generate sophisticated, narrative-based analyses of a user's unique listening habits[cite: 24].

Expense Splitter Pro

[Live Demo](#)

[GitHub Repo](#)

Tech Stack: React, TypeScript, Vite, Tailwind CSS, Framer Motion [cite: 26]

- Developed a feature-rich Single-Page Application (SPA) with advanced state management to simplify group expense tracking and settlements[cite: 27].
- Implemented flexible splitting logic (equal/custom amounts) and utilized browser local storage for persistent session data[cite: 28].

SKILLS

Full-Stack Languages

JavaScript (ES6+), TypeScript, Node.js, HTML5, CSS3, Rust (Basics) [cite: 31]

Frameworks & Libraries

React, Next.js, Vite, Tauri, Express.js, Headless UI [cite: 33]

Architecture & Security

RBAC Security, Middleware Hardening, MongoDB (Schema Design), Financial Logic (GST/Tax) [cite: 35]

Premium UI/UX

Tailwind CSS, Framer Motion (Physics-based), Performance Optimization (Web Vitals), Responsive Design, Native App Development [cite: 37]

Engineering Tools

Git, GitHub Actions, AI-augmented Peer Review, Figma, Xcode, VS Code [cite: 39]

EDUCATION

Bachelor of Computer Applications (BCA)

AMRITA VISHWA VIDYAPEETHAM [cite: 42]

2022 – 2025 [cite: 43]

CERTIFICATIONS

CCNAv7: Introduction to Networks

Cisco Networking Academy [cite: 46]

Completed: June 2024 [cite: 45]

Programming Essentials in Python (PCAP)

Cisco Networking Academy [cite: 48]

Completed: February 2024 [cite: 49]

Capstone MOOC for Android App Development

Vanderbilt University (Coursera) [cite: 51]

Completed: January 2025 [cite: 49]

Responsive Website Development and Design Specialization

Coursera [cite: 54]

Completed: June 2025 [cite: 55]