

# KEVIN T

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Computer Science undergraduate specializing in Data Science with strong academic performance (CGPA 8.98) and hands on experience in building, deploying, and operating production grade web and AI systems. Actively involved in leadership roles and technical initiatives, with strong interest in real world system development.

## EXPERIENCE

### FOUNDER'S OFFICE INTERN - TECHNICAL (PRODUCT & ENGINEERING)

*MOVZZ | Feb 2026 – Present*

- Developed a presentation-ready mobile frontend prototype for investor and stakeholder demonstrations, encompassing a comprehensive 6-screen end-to-end user flow (authentication, transport selection, map-based location input, results comparison, and ride confirmation).
- Designed and implemented a reliability centric user experience (UX), including Best/Cheapest/Premium tagging, reliability scoring visualization, and a MOVZZ reliability guarantee to distinctly differentiate from direct provider applications.
- Developed an interactive React based prototype (1,600+ lines) with accurate Chennai geography (Leaflet), real provider data (Uber, Ola, Rapido, Metro), and mobile-first design optimized for presentations.
- Restored and refactored a mode-specific backend fare estimation engine, incorporating realtime aware surge pricing, road distance correction, airport premiums, tiered cab pricing, and minimum fare enforcement validated against real Chennai market data.
- Identified and rectified critical backend regressions, including broken import chains, silent runtime bugs, API response mismatches, and test suite failures; restored full TypeScript compilation and 52/52 unit tests passing.
- Collaborated directly with the Founder and CTO on integration reviews, architecture decisions, and process improvements, including establishing a PR review discipline before merges to the main branch.

### MEMBER OF IQAC STUDENT CHAPTER January 2026 - Present

*Internal Quality Assurance Cell (IQAC) - VIT Chennai.*

- Recognized and selected by the department head after my tenure as Program Representative to represent the university in institutional level of quality assurance and enhancement initiatives.
- Contributing to quality improvement strategies for academic and administrative processes across the university.

### GENERAL SECRETARY September 2025 - Present

*Artificial Intelligence Club - VIT Chennai.*

- Leading the strategic planning and execution of AI-focused events, workshops, and technical sessions across the campus for AIC. (Best Technical Club Award - 2025)
- Coordinating core team leaders, faculty advisors, and external speakers to ensure smooth operations, while managing communications, ensuring structured documentation, and decision making processes.
- Driving student engagement and promoting AI awareness across campus through initiatives and collaborations.

## **PROGRAM REPRESENTATIVE July 2024 - Present**

*VIT Chennai (BSc in CS with Data Science Program).*

- Representing peers and acting as a liaison between students and faculty.

## **EDUCATION**

### **July 2024 – Present**

Bachelor of Science (BSc) in Computer Science with Data Science.

*Vellore Institute of Technology (VIT University), Chennai.*

CGPA: 8.98 (3.59/4 CGPA)

### **March 2020**

HSC (12): 81%

*Sri Ramana Vidyalaya Montessori Matriculation Higher Secondary School, Rajapalayam.*

### **March 2018**

SSLC (10): 92.4%

*Sri Ramana Vidyalaya Montessori Matriculation Higher Secondary School, Rajapalayam.*

## **TECHNICAL SKILLS**

**Programming Languages:** Python (Advanced), C, C++, Java, JavaScript (ES6), Swift, React

**Web Development:** Node.js, Express.js, REST APIs, HTML 5, CSS3(Responsive & Mobile First)

**iOS Development:** SwiftUI (iOS 18+), Metal Shaders, CoreMotion, Core Graphics, XcodeGen

**AI/LLM:** LLM API (Groq Llama 3.3, GPT, Claude), Prompt Engineering, JSON Structuring, Data Analysis

**Database Mgmt:** MongoDB Atlas, MySQL.

**Cloud/DevOps:** Vercel, Render, GitHub Actions (CI/CD), UptimeRobot, Node-cron.

**Tools & Technologies:** Git, VS Code, Jupyter Notebook, Postman (API Testing), MS Office Suite

## **CERTIFICATIONS**

- **Google: AI Essentials – Coursera**  
*By Google.*
- **Machine Learning – Coursera**  
*By University of London.*
- **DevOps and Software Engineering Professional - Coursera**  
*By IBM - Currently Pursuing.*
- **Microsoft 365 Essentials: Word, Excel, PowerPoint & Outlook – Udemy**  
*By David Millard – Netresult Training.*
- **Python Mega Course – Udemy**  
*By Ardit Sulce – PythonHow.*

## PROJECTS

### Seaside Beacon v2: AI-Powered Sunrise Forecasting Platform & Native iOS App (Jan 2026 – Present)

Live: <https://www.seasidebeacon.com/> | GitHub: <https://github.com/kevint1814/Seaside-Beacon-v2>

- Built India's first native sunrise quality prediction engine. A full stack platform that analyzes 11 atmospheric parameters (aerosol optical depth, 3-layer cloud distribution, humidity, pressure trend, visibility, wind, synergy adjustments) through a proprietary v5.5 scoring algorithm to generate a 0 to 100 sunrise quality score across 4 beaches, with 6 verdict tiers and per-beach recommendations. Zero competitors exist in India or Asia.
- Developed a native iOS companion app in SwiftUI (iOS 17+) featuring a GPU-accelerated Metal fragment shader rendering procedural sunrise animations at 30fps, CoreMotion gyroscope parallax at 60Hz, @Observable state management, and a premium card design system.
- Architected a fault tolerant 3-tier AI cascade (Gemini 2.5 Flash, Groq Llama 3.3 70B, Flash-Lite, deterministic rule based) that generates dual audience content of sunrise experience narratives for the general public, plus calibrated DSLR/mobile camera settings for photographers handling 100+ daily API calls at <500ms p95 latency with zero cost on rule-based fallback.
- Shipped an AI powered Telegram Assistant as a premium conversational interface. 20 messages context window, 7-day multadays comparison, natural language weather queries, automated support ticket escalation, and 10 req/min rate limiting, all running through the same 3-tier AI provider chain.
- Engineered a high throughput REST API (Node.js/Express) with parallel beach fetching via Promise.allSettled, 3-layer in-memory caching (10min/2hr/6hr TTL), and a full Razorpay subscription system (2 plan tiers, Google OAuth, idempotent webhook processing, 7-day refund grace period with prorated access).
- Took email deliverability from 0% inbox → 9.5/10 Mail Tester by implementing SPF + DKIM + DMARC authentication, RFC 5322-compliant MIME alternatives, and a dual provider failover pipeline (Brevo 300/day primary, SendGrid 100/day backup). System delivers 2 automated daily broadcasts (4 AM forecast + 8:30 PM preview).
- Delivered a 95+ Lighthouse score with sub second load times on a mobile first vanilla JS frontend (Liquid Glass design system), secured with CSP + HSTS + X-Frame-Options + Permissions-Policy headers. Maintains 99.9% uptime on entirely free-tier infrastructure (Render + MongoDB Atlas M0 + Vercel CDN) INR 0/month operational cost.
- Built a realtime backend admin operations dashboard. IP deduplicated visitor analytics (daily/weekly/lifetime), premium user lifecycle management, support ticket triage, 7-day score trend visualization, and webhook error persistence for detecting silent payment failures.

### Network Outage Analysis and Automation Tool (December - 2024)

Live: <https://mystique-log-analysis.streamlit.app> | GitHub: <https://github.com/kevint1814/Mystique-Log-Dashboard>

- Designed and implemented a prototype for analyzing telecom logs and identifying root causes of outages using LLM integrations.
- The LLM-based automation implementation resulted in 40% time reduction in manual diagnostics.
- Secured 12<sup>th</sup> place out of 100+ teams in National level hackathon.

## INTERESTS

- Exploring practical AI applications beyond theory.
- Public speaking and knowledge sharing through presentations and seminars.
- Ownership driven collaboration and building reliable systems that contribute meaningfully to team outcomes.