SAHIL KAMAL

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SUMMARY

Full-stack Software Engineer and SaaS Founder who built Relearnable.ai serving 100+ active users with 60–70% retention. Winner of "Best Use of AI/ML - 1st Place" at RamHacks 2025. Experienced in full-cycle development, API integration, and identifying security vulnerabilities in production systems.

EDUCATION

Farmingdale State College   *Farmingdale, NY*
Bachelor of Science (B.S.) in Computer Science   ***Expected Dec 2026***
Nassau Community College   *Garden City, NY*
Associate of Science (A.S.) in Computer Science   ***GPA: 3.8***

PROJECTS

Relearnable.ai – Full-Stack AI Learning Platform │ *Next.js, TypeScript, PostgreSQL*   Nov 2025 – Present
- Founded and deployed a production SaaS serving **100+ active users** with **1,300+ AI-generated assessments** and **60–70% 30-day retention**
- Engineered a Knowledge Correction Engine using **RAG pipelines and vector embeddings** to detect misconceptions and dynamically rebuild mastery through targeted curriculum trees, **improving user placement test scores by 40%** and validated by educators who discovered gaps in their own expertise
- Reduced API costs by 40% and improved response times by implementing a hybrid caching strategy (Redis + PostgreSQL) for high-frequency queries
- Achieved **50% faster load times** via hardware-accelerated CSS and React server components, directly increasing session duration

Tratlus – AI Travel Planning Platform │ *React, TypeScript, Firebase*   Jun 2025 – Oct 2025
- Architected an AI travel system generating personalized itineraries in **under 30 seconds** by capturing user preference data across interests, activities, and constraints
- Integrated RESTful Google Maps and Calendar APIs with non-blocking async workflows to enable automatic scheduling, reducing manual planning time by **60%**
- Implemented background conflict detection and regeneration to prevent scheduling overlaps without blocking user experience

FlavorBot – AI Recipe Generator (RamHacks 2025 Winner) │ *Java, JavaFX, SQL*   Jan 2025 – May 2025
- **Won "Best Use of AI/ML - 1st Place"** at RamHacks 2025 (Farmingdale State College Hackathon)
- Developed an AI-powered recipe generator processing 400+ recipes with intelligent dietary constraint handling
- Built an iterative LLM refinement interface, reducing recipe revision cycles by **25%**

Kairo – Interactive REPL OS Shell │ *Python*   Sep 2024 – Dec 2024
- Designed and implemented a domain-specific shell language supporting **500+ chainable commands** with composable return values
- Built a **type inference engine** with automatic type conversions, reducing syntax errors by **30%** across 20+ beta testers

EXPERIENCE

Security Engineering Intern   *May 2025 – Aug 2025*
Ax2 Technologies   *Mineola, NY*
- Discovered and remediated a **High-Severity IDOR vulnerability** in a REST API through automated endpoint analysis, securing sensitive Stripe payment data for 200+ clients
- Automated compliance auditing using PowerShell scripts, reducing weekly manual reporting by **70%** (5+ hours/week)
- Secured 75+ Windows endpoints via automated antivirus deployment, OS patching, and access control auditing
- Validated disaster recovery protocols achieving **100% restore success** across backup configurations

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Python, Java, C++, F#, SQL
Frameworks & Libraries: Next.js (React), React Native, Django, Spring Boot, JavaFX, Tailwind CSS
APIs & Tools: OpenAI, Google Gemini, Stripe, Redis, Google Maps, Git, GitHub, Docker, Vercel, Vite
Databases: PostgreSQL, Firebase (Firestore), Azure SQL, MongoDB