

Sahil Kamal

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Education

Farmingdale State College B.S. in Computer Science	Jan 2025 – Dec 2026 (Expected) Farmingdale, NY
• Relevant Coursework: Data Structures & Algorithms, Software Engineering, AI & Machine Learning, Database Systems, Operating Systems, Computer Networking, Linear Algebra, Discrete Math	

Nassau Community College A.S. in Computer Science GPA: 3.8	Jan 2023 – Dec 2024 Garden City, NY
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Technical Skills

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

Experience

IT Security Intern Ax2 Technologies	May 2025 – Aug 2025 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	

Software Engineering Volunteer Nassau University Medical Center	Jun 2023 – Aug 2023 East Meadow, NY
• Engineered a Python-based patient verification system integrated with an SQL database to automate identity and appointment validation, processing 150 daily check-ins and reducing verification time by 90 seconds per patient • Implemented 12 data validation rules with comprehensive error handling, unit tests, and escalation workflows, decreasing check-in errors by 25% in a high-volume clinical environment • Deployed production automation suite to 10 pharmacy staff members; system remains in active use over 2+ years post-deployment	

Projects

Relearnable – Full-Stack AI Learning Platform Next.js, TypeScript, PostgreSQL Live	Nov 2025 – Present
• Founded and deployed a production SaaS serving 100+ active users with 1,300 assessments generated via Google Gemini and 65% 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 30% 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, optimizing UI responsiveness and increasing user retention	
Tratlus – Full-Stack AI Travel Planning Web App React, TypeScript, Firebase Live	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 using OpenAI with intelligent dietary constraint handling • Built an iterative LLM refinement interface, reducing recipe revision cycles by 35%	
Kairo – Interactive REPL OS Shell Python	Sep 2024 – Dec 2024
• Designed and implemented a domain-specific shell language supporting 1000+ chainable commands with composable return values • Built a type inference engine with automatic type conversions, reducing syntax errors by 30% across 20 beta testers	