

# Sahil Kamal

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## Education

<b>Farmingdale State College</b> B.S. in Computer Science	Farmingdale, NY Jan 2025 – Dec 2026 (Expected)
• <b>Relevant Coursework:</b> Data Structures & Algorithms, Software Engineering, AI & Machine Learning, Database Systems, Operating Systems, Computer Networking, Linear Algebra, Discrete Math	
<b>Nassau Community College</b> A.S. in Computer Science   <b>GPA: 3.8</b>	Garden City, NY Jan 2023 – Dec 2024

## 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

<b>IT Security Intern</b> Ax2 Technologies	May 2025 – Aug 2025 Mineola, NY
• Discovered and remediated a <b>High-Severity IDOR vulnerability</b> in a REST API through automated endpoint analysis, securing sensitive Stripe payment data for <b>200+ clients</b>	
• Automated compliance auditing using PowerShell scripts, reducing weekly manual reporting by <b>70%</b> (5+ hours/week)	
• Secured 75+ Windows endpoints via automated antivirus deployment, OS patching, and access control auditing	
• Validated disaster recovery protocols achieving <b>100% restore success</b> across backup configurations	
<b>Software Engineering Volunteer</b> Nassau University Medical Center	Jun 2023 – Aug 2023 East Meadow, NY
• Engineered a Python-based patient verification system integrated with SQL database to automate identity and appointment validation, processing 150 daily check-ins and reducing verification time by <b>90 seconds per patient</b>	
• Implemented 12 data validation rules with comprehensive error handling, unit tests, and escalation workflows, <b>decreasing check-in errors by 25%</b> in a high-volume clinical environment	
• Deployed production automation suite to 10 pharmacy staff members; system remains in active use <b>over 2+ years post-deployment</b>	

## Projects

<b>Relearnable – Full-Stack AI Learning Platform</b>   Next.js, TypeScript, PostgreSQL   <a href="#">Live</a>	Nov 2025 – Present
• Founded and deployed a production SaaS serving <b>100+ active users</b> with <b>1,300 assessments generated</b> via Google Gemini and <b>65% 30-day retention</b>	
• Engineered a Knowledge Correction Engine using RAG pipelines and vector embeddings to detect misconceptions and dynamically rebuild mastery through targeted curriculum trees, <b>improving user placement test scores by 40%</b> and validated by educators who discovered gaps in their own expertise	
• Reduced API costs by <b>30%</b> and improved response times by implementing a hybrid caching strategy (Redis + PostgreSQL) for high-frequency queries	
• Achieved <b>50% faster load times</b> via hardware-accelerated CSS and React server components, optimizing UI responsiveness and increasing user retention	
<b>Tratlus – Full-Stack AI Travel Planning Web App</b>   React, TypeScript, Firebase   <a href="#">Live</a>	Jun 2025 – Oct 2025
• Architected an AI travel system generating personalized itineraries in <b>under 30 seconds</b> 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, <b>reducing manual planning time by 60%</b>	
• Implemented background conflict detection and regeneration to prevent scheduling overlaps without blocking user experience	
<b>FlavorBot – AI Recipe Generator (RamHacks 2025 Winner)</b>   Java, JavaFX, SQL	Jan 2025 – May 2025
• Won “ <b>Best Use of AI/ML - 1st Place</b> ” at RamHacks 2025 (Farmingdale State College Hackathon)	
• Developed an AI-powered recipe generator processing <b>400 recipes</b> using OpenAI with intelligent dietary constraint handling	
• Built an iterative LLM refinement interface, reducing recipe revision cycles by <b>35%</b>	
<b>Kairo – Interactive REPL OS Shell</b>   Python	Sep 2024 – Dec 2024
• Designed and implemented a domain-specific shell language supporting <b>1000+ chainable commands</b> with composable return values	
• Built a type inference engine with automatic type conversions, reducing syntax errors by <b>30%</b> across 20 beta testers	