

# Sahil Kamal

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## Education

<b>Farmingdale State College</b> B.S. in Computer Science	<i>Farmingdale, NY</i> Jan 2025 – Expected Dec 2026
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Data Structures &amp; Algorithms, Software Engineering, AI &amp; Machine Learning, Database Systems, Operating Systems, Computer Networking, Linear Algebra, Discrete Math</li></ul>	
<b>Nassau Community College</b> A.S. in Computer Science   <b>GPA: 3.8</b>	<i>Garden City, NY</i> Jan 2023 – Dec 2024

## Experience

<b>IT Security Intern</b> <i>Ax2 Technologies</i>	<i>May 2025 – Aug 2025</i> <i>Mineola, NY</i>
<ul style="list-style-type: none"><li>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></li><li>Automated compliance auditing using PowerShell scripts, reducing weekly manual reporting by <b>70%</b> (5+ hours/week)</li><li>Secured 75+ Windows endpoints via automated antivirus deployment, OS patching, and access control auditing</li><li>Validated disaster recovery protocols achieving <b>100% restore success</b> across backup configurations</li></ul>	
<b>Software Engineering Volunteer</b> <i>Nassau University Medical Center</i>	<i>Jun 2023 – Aug 2023</i> <i>East Meadow, NY</i>
<ul style="list-style-type: none"><li>Engineered a Python-based patient verification system integrated with SQL database to automate identity and appointment validation, processing 200 daily check-ins and reducing verification time by <b>90 seconds per patient</b></li><li>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</li><li>Deployed production automation suite to 10 pharmacy staff members; system remains in active use <b>over 2+ years post-deployment</b></li></ul>	

## Projects

<b>Relearnable – Full-Stack AI Learning Platform</b>   <i>Next.js, TypeScript, PostgreSQL</i>   <a href="#">Live</a>	<i>Nov 2025 – Present</i>
<ul style="list-style-type: none"><li>Founded and deployed a production SaaS serving <b>100+ active users</b> with <b>1,300 AI-generated assessments</b> and <b>65% 30-day retention</b></li><li>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</li><li>Reduced API costs by <b>30%</b> and improved response times by implementing a hybrid caching strategy (Redis + PostgreSQL) for high-frequency queries</li><li>Achieved <b>50% faster load times</b> via hardware-accelerated CSS and React server components, directly increasing session duration</li></ul>	
<b>Tratlus – AI Travel Planning Platform</b>   <i>React, TypeScript, Firebase</i>   <a href="#">Live</a>	<i>Jun 2025 – Oct 2025</i>
<ul style="list-style-type: none"><li>Architected an AI travel system generating personalized itineraries in <b>under 30 seconds</b> by capturing user preference data across interests, activities, and constraints</li><li>Integrated RESTful Google Maps and Calendar APIs with non-blocking async workflows to enable automatic scheduling, <b>reducing manual planning time by 60%</b></li><li>Implemented background conflict detection and regeneration to prevent scheduling overlaps without blocking user experience</li></ul>	
<b>FlavorBot – AI Recipe Generator (RamHacks 2025 Winner)</b>   <i>Java, JavaFX, SQL</i>	<i>Jan 2025 – May 2025</i>
<ul style="list-style-type: none"><li>Won “<b>Best Use of AI/ML - 1st Place</b>” at RamHacks 2025 (Farmingdale State College Hackathon)</li><li>Developed an AI-powered recipe generator processing <b>400 recipes</b> with intelligent dietary constraint handling</li><li>Built an iterative LLM refinement interface, reducing recipe revision cycles by <b>25%</b></li></ul>	
<b>Kairo – Interactive REPL OS Shell</b>   <i>Python</i>	<i>Sep 2024 – Dec 2024</i>
<ul style="list-style-type: none"><li>Designed and implemented a domain-specific shell language supporting <b>1000+ chainable commands</b> with composable return values</li><li>Built a type inference engine with automatic type conversions, reducing syntax errors by <b>30%</b> across 20+ beta testers</li></ul>	

## 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  
**APIs & Tools:** OpenAI, Google Gemini, Stripe, Redis, Google Maps, Git, GitHub, Docker, Vercel, Vite  
**Databases:** PostgreSQL, Firebase (Firestore), Azure SQL, MongoDB