

# Sahil Kamal

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## EDUCATION

<b>Farmingdale State College, Farmingdale, NY</b> <i>Bachelor of Science (B.S.) in Computer Science</i>	<i>Jan 2025 — Present</i>
<b>Nassau Community College, Garden City, NY</b> <i>Associate of Science (A.S.) in Computer Science</i>	<i>Jan 2023 — Dec 2024</i> GPA: 3.8

## EXPERIENCE

<b>IT Intern</b> <i>Ax2 Technologies</i>	<i>May 2025 — Aug 2025</i> Mineola, NY
• Implemented endpoint security controls across Windows environments, deploying antivirus protection, enforcing OS patching, and auditing user access to reduce organizational security risk and maintain compliance	
• Supported backup verification and disaster recovery testing to ensure system reliability, data integrity, and business continuity readiness	

## PROJECTS

<b>Relearnable.ai – Full-Stack AI SaaS</b>   Next.js (React), TypeScript, PostgreSQL	<i>Nov 2025 — Present</i>
• Built and deployed a full-stack AI learning SaaS, designing the system architecture and a PostgreSQL-backed application layer supporting live users and personalized instruction	
• Engineered a real-time Knowledge Correction Engine that detects learner misconceptions via LLM-generated assessments (powered by Google Gemini) and dynamically rebuilds mastery through targeted curriculum trees	
• Designed a responsive, mobile-first UI with Framer Motion animations and light/dark theming, improving interactive load times by over 50% from the initial implementation through hardware-accelerated CSS and component memoization	

<b>Tratlus – AI-Powered Travel Planning Platform</b>   React, TypeScript, Firebase	<i>Jun 2025 — Oct 2025</i>
• Architected an AI-powered travel planning system that captures user preferences via an intuitive swipe interface and generates personalized plans using LLM-driven prompt engineering and a mobile-first UI	
• Implemented RESTful API integrations with Google Maps and Google Calendar to automate activity synchronization, reducing manual scheduling by 60% and preventing calendar conflicts, while integrating Stripe to support booking fees and payments	

<b>FlavorBot – AI Recipe Generation System</b>   Java, JavaFX, SQL	<i>Jan 2025 — May 2025</i>
• Developed an AI-powered recipe generator in Java leveraging the OpenAI API to personalize recipes based on available ingredients, allergies, and dietary constraints	
• Implemented an interactive, structured output interface via JavaFX routing user-specified edits back to the LLM for automated refinement, reducing revision turnaround time by 25% and improving first-pass acceptance	

<b>Kairo – Interactive REPL OS Shell</b>   Python	<i>Sep 2024 — Dec 2024</i>
• Built an interactive OS shell in Python, consolidating OS-level utilities and refactoring legacy executables into a functional programming-oriented architecture, improving execution speed by 40% and reducing maintenance complexity	
• Optimized REPL usability through peer testing and improved command orthogonality	

## SKILLS

**Programming Languages:** TypeScript, JavaScript (ES6+), Python, Java, C++, C, F#

**Frameworks & Libraries:** Next.js (React), React Native, Django, Spring Boot, JavaFX

**Databases & Storage:** PostgreSQL (Supabase), Azure SQL Database, Firebase, MongoDB

**Dev Tools & Tooling:** Git, GitHub, Docker, Vercel, Vite, Tailwind CSS, Framer Motion

**Focus Areas:** Full-Stack Engineering, Product-Focused Web & Mobile Development, AI Systems (LLM-Driven)