

# Sahil Kamal

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## EDUCATION

**Farmingdale State College, Farmingdale, NY**  
*Bachelor of Science (B.S.) in Computer Science*

*Jan 2025 — Present*

**Nassau Community College, Garden City, NY**  
*Associate of Science (A.S.) in Computer Science*

*Jan 2023 — Dec 2024*  
*GPA: 3.8*

## EXPERIENCE

**IT Intern**

*Ax2 Technologies*

*May 2025 — Aug 2025*  
*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

**Relearnable.ai – Full-Stack AI SaaS** | Next.js (React), TypeScript, PostgreSQL

*Nov 2025 — Present*

- 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

**Tratlus – AI-Powered Travel Planning Platform** | React, TypeScript, Firebase

*Jun 2025 — Oct 2025*

- 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

**FlavorBot – AI Recipe Generation System** | Java, JavaFX, SQL

*Jan 2025 — May 2025*

- 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

**Kairo – Interactive REPL OS Shell** | Python

*Sep 2024 — Dec 2024*

- 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)