

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

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