

Sahil Kamal

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Education

Farmingdale State College

B.S. in Computer Science

- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, AI & Machine Learning, Database Systems, Operating Systems, Computer Networking, Linear Algebra, Discrete Math

Farmingdale, NY

Jan 2025 – Expected Dec 2026

Nassau Community College

A.S. in Computer Science | **GPA: 3.8**

Garden City, NY

Jan 2023 – Dec 2024

Experience

IT Security Intern

Ax2 Technologies

- 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

May 2025 – Aug 2025

Mineola, NY

Software Engineering Volunteer

Nassau University Medical Center

- 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 **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**

Jun 2023 – Aug 2023

East Meadow, NY

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 AI-generated assessments** 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, directly increasing session duration

Tratlus – AI Travel Planning Platform | *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** with intelligent dietary constraint handling
- Built an iterative LLM refinement interface, reducing recipe revision cycles by **25%**

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

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