

# KEVIN AGUIRRE

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## EDUCATION

### New York University, Tandon School of Engineering

Masters of Science, Computer Science

May 2027

Bachelors of Science, Computer Science

May 2026

- Minors: Mathematics, Cybersecurity
- Relevant Coursework: Object Oriented Programming, Design & Analysis of Algorithms, Operating Systems

## RELEVANT EXPERIENCE

### Broadcom

May 2025 - August 2025

*Software Engineering Intern*

*Melville, NY*

- Built a TypeScript/Next.js admin dashboard with sorting & filtering to streamline access to 10,000+ client records.
- Enhanced Spring services with server-side pagination, sorting & filtering utilities, and data export for tables and charts.
- Built custom React hooks for 10+ internal chart components; wrote 20+ Java unit tests and Playwright E2E tests.

### NYU HSRN VIP

September 2023 - Present

*Software Developer*

*New York, NY*

- Parsed database records to create an interactive Vis.js graph displaying space, subspace, and member relationships.
- Streamlined network device and MAC address management by integrating the NetCloud API into the Node.js server.
- Developed Jest unit tests for server components, integrated them into CI/CD pipeline, and performed frontend QA.

### 4Human Corporation

May 2024 - August 2024

*Software Engineering Intern*

*New York, NY*

- Developed an admin dashboard using Next.js and TypeScript to manage users, inventory, orders, and transactions.
- Created Node.js API endpoints to perform CRUD operations and monitored database queries using Firebase Console.

## OTHER EXPERIENCE

### NYU Center for K12 Stem Education

June 2024 - February 2025

*Course Assistant*

*New York, NY*

- Assisted in various courses teaching middle school students about Arduino circuits, C Programming, and CAD.
- Debugged students' Arduino circuits, managed inventory, and assisted in developing course curriculums.

### TRIO Scholars Program

September 2024 - December 2024

*Computer Science Tutor*

*New York, NY*

- Provided one-on-one tutoring for courses such as *Introduction to Programming* and *Data Structures & Algorithms*.
- Guided students through curriculum concepts and provided practice questions to refine their understanding.

## PROJECTS

[QuickLook](#) (React.js, Next.js, Java, Spring Boot, PostgreSQL, OpenAI API)

- Developed a full-stack application that allows users to learn more about phrases/terms by generating summaries.
- Utilized OpenAI API to have ChatGPT generate summaries based on terms, which users can organize into sets.
- Engineered a Spring Boot backend that uses Spring Data JPA to store user information in a PostgreSQL database.

[LeetCode Data Scraper](#) (Python, BeautifulSoup, Qt)

- Developed a web scraper using Python to fetch information about various study plans and problems from LeetCode
- Engineering a GUI using Qt, allowing users to select study plans and choose a respective programming language
- Generates files with code snippets and problem descriptions organized by study plan for local LeetCode practice.

## TECHNICAL SKILLS

- Programming Languages: Python, C/C++, Java, HTML, CSS, JavaScript, TypeScript, SQL, Bash
- Frameworks: React.js, Next.js, Redux.js, Node.js, Express.js, Spring Boot
- Technologies: MongoDB, PostgreSQL, Git, GitHub, GitLab, Linux, Microsoft Office