KEVIN AGUIRRE

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EDUCATION

New York University, Tandon School of Engineering, New York, NY
Masters of Science in Computer Science, May 2027
Bachelors of Science in Computer Science, May 2026
Minors: Mathematics, Cybersecurity
Relevant Coursework: Design & Analysis of Algorithms; Object Oriented Programming; Operating Systems

RELEVANT EXPERIENCE

Research Software Developer, **NYU Secure Systems Laboratory**, New York, NY   **Fall 2024 - Present**
- Developing a network interface to display delegations and permissions for gittuf repository branches, files, and tags.
- Engineered ability to determine whether developers are authorized to modify a repository branch or tag.

Software Developer, **NYU HSRN VIP**, New York, NY   **Fall 2023 - Present**
- Developed unit tests in Jest to test server functions and dashboard components written in Next.js.
- Integrated unit tests into CI/CD pipeline, maintained code in GitLab, and presented progress in weekly meetings.
- Utilized Next.js, Node.js, React.js, Redux.js, Jest, JavaScript, and TypeScript.

Software Engineering Intern, **4Human Corporation,** New York, NY   **Summer 2024**
- Engineered an admin dashboard that allows administrators to manage users, product inventory, and transactions.
- Developed frontend components for an e-commerce website and reviewed pull requests before merging changes.
- Utilized Firebase Console, Next.js, React.js, JavaScript, Typescript, Node.js, and GitHub.

OTHER EXPERIENCE

Course Assistant, **NYU Center for K12 Stem Education,** New York, NY   **Summer 2024 - Present**
- 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.

Peer Tutor, **TRIO Scholars Program,** New York, NY   **Fall 2024**
- 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)   **Summer 2024**
- 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, Beautiful Soup, Qt)   **Summer 2024**
- 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.

Workout Tracker (React.js, Node.js, Express.js, MongoDB)   **Winter 2023**
- Developed a workout tracker dashboard allowing users to monitor and manage their exercise routines.
- Implemented workout logging, goal setting, progress evaluation, and a daily and weekly streak system
- Established RESTful API endpoints in Node.js to perform CRUD operations related to workouts and goals.
- Utilized HTML, CSS, JavaScript, React.js, Node.js, Express.js, and MongoDB

TECHNICAL SKILLS

- 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