KEVIN IRAGUHA RUSAGARA

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GitHub | LinkedIn | Portfolio

EDUCATION

Yale University   New Haven, CT
B.S Computer Science | Courses: Data Structures, Advanced Algorithms, Operating Systems, OOP   May 2027

EXPERIENCE

Citadel & Citadel Securities | SWE Summer Extern   New York (Hybrid) | May 2024 - Aug 2024
- Built a web application using Python and Flask to track budget expenses, integrating a stock market API for real-time portfolio tracking.
- Tested trading strategies on the Amplify stock simulation using momentum trading techniques.
- Acquired practical knowledge in financial APIs and software development for financial services.

Awesomity Lab | Software Developer Intern   Kigali, Rwanda | June 2024 - Aug 2024
- Developed and deployed Provigator, a FastAPI-based bug-tracking system now in use by the company.
- Implemented CRUD operations for client, project, and user management, ensuring efficient data handling and integration.
- Integrated Google OAuth for secure and streamlined user authentication.

Yale University | Student Technician   New Haven, CT | Sep 2023 - May 2024
- Diagnosed and repaired hardware issues for students, like failed hard drives, faulty RAM, and overheating CPUs.
- Addressed software problems and provided advice like virus removal, operating system reinstallations, and fixing application errors.

SAMSUNG Engineering | Ambassador   Seoul, Korea (Remote) | Jan 2022 - June 2022
- Organized and led 150+ teenagers in my village's data-driven environmental campaign against deforestation and utilized data to inform our strategies and adapted a paper recycling/reusing scheme.

SKILLS

Programming Languages:	Python, C/C++,JavaScript, SQL, Racket, Bash, HTML, CSS
Libraries/Frameworks:	FastAPI, Flask, Spring Boot, React.js, Next.js, Bootstrap, Angular
Tools / Platforms:	Git, AWS, Postman, Google Firebase, Linux
Databases:	SQLite, MongoDB

PROJECTS / OPEN-SOURCE

DiscoverHub | Link   *Typescript, Next.js, React, Tailwind, CSS, Google Places API*

Built a business listing web app using Next.js 14.2 for server-side rendering, React for UI components, Tailwind CSS for responsive design, and TypeScript for type safety. Integrated Google Places API for business data and Google Maps API for real-time map interactions.

Provigator API | Link   *Python, FastAPI, SQLite, Google OAuth*

Developed the Backend of a FastAPI-based bug-tracking system with SQLite for centralized management of clients, projects, and users at Awesomity Lab. Integrated Google OAuth for secure authentication and handled CRUD operations. The system tracked and resolved 141+ bugs, significantly improving software quality assurance.

Spell-Checker | Link   *C, GCC, Makefile, Levenshtein Algorithm*

Built an interactive spell checker in C using the Damerau-Levenshtein algorithm, handling 300,000+ words to suggest corrections for misspelled inputs. Automated with a Makefile and compiled using GCC, the program supports text/file input and offers options to Add, Replace, or Ignore words.

Maze Generator | Link   *C, GCC, Makefile, Algos*

Created a maze generator program in C with four algorithms, including DFS and Prim's Algorithm, featuring a command-line interface for customizable dimensions and algorithm selection. Utilized structs and enums for dynamic maze configurations, compiled with GCC for efficient execution.

EXTRACURRICULARS

Yale Computer Society, Yale ColorStack, NSBE, Yale African Students Association, Yale Black Men's Union