

RANDY SIM

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EDUCATION

STONY BROOK UNIVERSITY

Bachelor of Science in Computer Science

Stony Brook, NY

August 2024 – Expected May 2027

STUYVESANT HIGH SCHOOL

Stuyvesant Endorsed Diploma, Advanced Regents Diploma with Honors

- Cumulative GPA: 95.83, Congressional App Challenge Winner, National Merit Finalist, Regents Advanced Designation with Mastery in Math and Science, USACO Silver, AP Scholar with Distinction

SKILLS

Node.js, Express, React, Java, Python, Typescript, PostgreSQL, Git, Linux, Docker, C#, C++

PROJECTS

EPSILON | [Github](#), [Live Site \[Student Only\]](#) | *React, Typescript, PostgreSQL, Docker, Supabase*

- Developed Epsilon, an all-in-one platform for Stuyvesant High School, featuring club management, room reservations, event creation, and corresponding admin dashboards. Utilized daily by over 3,300 students and faculty.
- Created a PostgreSQL database, implementing authentication with row level security and edge functions to accommodate google apis and a self-hosted mail server.
- Used typescript, react, and react-router to create a responsive frontend, integrating the API to display dynamic data.
- Self-hosted supabase docker containers on a VPS. Set up continuous integration pipelines for frontend/backend

VIGIL.US | [Github](#) | *React, Express, Tensorflow*

- Developed Vigil.us, an app used to aggregate reports to prevent gun violence. Presented project in front of District 9 representatives and community members.
- Created a REST API in Express.js, authenticating users via anonymous tokens
- Leveraged Twitter's API to fetch social media posts for sentiment analysis to preemptively identify suspects.

VISUAL NOVEL ENGINE | [Github](#) | *C#, Unity*

- Developed a visual novel maker in Unity, viewed by over 1,500 people online.
- Created a custom markup language and parser that supports animations, dialogue, SFX/VFX, scenes, and choices.

EXPERIENCE

STUYVESANT STUDENT UNION

Director of IT

New York, NY

August 2023 – July 2024

- Maintained all repositories of applications used by Stuyvesant High School
- Developed features and queries based on faculty and student government requests.
- Trained a team of 10 in React.js and backend development.

GOOGLE MENTORSHIP PROGRAM

Software Engineer

New York, NY

January 2023 – June 2023

- Worked in a team of 4 with a Google Engineer to develop SimplifyCS, a CS education platform.
- Held weekly code reviews and presented the final project to 30+ Software Engineers at Google.
- Used Next.js and Prisma to develop a full stack application, worked on the admin dashboard, content management system, user authentication, and the course interface.

RELEVANT COURSEWORK

STONY BROOK UNIVERSITY: *Data Structures, Foundations of Computer Science, Linear Algebra*

STUYVESANT HIGH SCHOOL: *Data Structures and Algorithms in Java, Computer Graphics*