

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*