RANDY SIM

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EDUCATION

Stony Brook University   Stony Brook, NY
Bachelor of Science in Computer Science   *August 2024 – Expected May 2027*
Courses: *Data Structures and Algorithms, Discrete Math, Linear Algebra*

SKILLS

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

WORK EXPERIENCE

Stony Brook Campus Residences   Stony Brook, NY
Software Engineer   *September 2024 – Present*
- Developed and managed real-time web applications for campus device monitoring using C#, .NET, Express, React, and Vue.js, with CI/CD pipelines in Jenkins, supporting 100+ professional staff in daily operations.
- Developed and maintained features within a 6-person Agile team, utilizing GitHub for version control and managing sprint tasks and progress in Jira.
- Troubleshooted development and deployment issues, documenting solutions to streamline team collaboration.

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

Eventure | Github | NextJS, shadcn/ui, Spring Boot, PostgreSQL
- Developed Eventure, an app used to create and share plans, featuring plan creation, deletion, editing, and sharing.
- Created a Rest API using Spring's Web MVC framework. Implemented Google OAuth2 logins using spring security. Connected Spring Boot ORM to a PostgreSQL database.
- Used typescript, nextjs, and shadcn/ui to develop a responsive frontend.

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.

EXTRACURRICULARS

Stony Brook Robotics Team   Stony Brook, NY
Software Engineer   *September 2024 – Present*
- Participant in the MATE-ROV underwater robotics competition.
- Developed robot communication interface in Python/PyQt5.

Stuyvesant Student Union   New York, NY
Director of IT   *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.