Randy Sim

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Education

Brown University   Providence, RI
B.S. in Computer Science   Sep 2025 — May 2028

Stony Brook University   Stony Brook, NY
Computer Science (33 credits), GPA: 4.0   Aug 2024 — May 2025

Skills

Languages: C, C#, C++, Java, Python, Javascript/Typescript, HTML, CSS/Tailwind
Frameworks: Angular, .NET, Django, Express, Flask, NextJS, React, Spring Boot
Tools: AWS, Digital Ocean, Docker, Git, Linux, Netlify, Node.js, PostgreSQL, Supabase

Work Experience

MDLand   Great Neck, NY
Software Engineer Intern   Jan 2025 — Present
- Built Flask API with Zendesk integration serving 1,000+ clinics for streamlined ticket management.
- Achieved 100% integration test coverage using pytest suite.
- Enhanced iClinic, MDLand's flagship product, by integrating my Zendesk API into existing C# .NET infrastructure.
- Collaborated using Git for version control and Jira for task management and automated status tracking.

Stony Brook Campus Residences   Stony Brook, NY
Software Engineer   Sep 2024 — May 2025
- Designed and maintained real-time dashboards for campus device monitoring using C# .NET, Express, React, and SQL, supporting 100+ professional staff.
- Rebuilt PrintStats, Stony Brook's official printer dashboard. Migrated the entire C# .NET backend to Express.js, utilizing asynchronous functions to achieve a 1,100% improvement (6 min $\rightarrow$ 30 sec) in loading printer metadata via SNMP.
- Modernized CI/CD by replacing legacy Jenkins + IIS setup with Github Actions and Windows Services.
- Established separate development environments, tripling throughput and reducing production failure rate to zero.
- Led development within an Agile team, utilizing GitHub and Jira to manage sprint tasks and progress.

Personal Projects

epsilon.stuysu.org
- Founded Epsilon, an all-in-one platform managing 400+ student organizations at Stuyvesant High School; serves 3,300+ daily users for all club activities, room reservations, and school-wide events.
- Implemented row-level security policies in Supabase PostgreSQL for authentication-based data access control.
- Developed custom Deno edge functions to integrate Google APIs and self-hosted email services.
- Used Typescript, React, and react-router to create a responsive frontend deployed on Netlify.
- Wrote a custom webhook server to enable CI/CD for Supabase containers on DigitalOcean.

News To Go
- Built an AI-powered news app using Angular and Django, transforming news articles into engaging videos. Amassed 100+ followers through daily automated content.
- Engineered a scalable video pipeline using Selenium, Ollama, and MoviePy. Built a job queue system with multithreading to support concurrent user requests on single-machine infrastructure.

Reborn
- Launched a gamified productivity application with NextJS, Spring Boot, and PostgreSQL, implementing stats, reminders, and a death tracker to increase user motivation.
- Managed application infrastructure on AWS EC2 with security groups, git-based deployment, and cost alerts.

Relevant Coursework

- **Data Structures and Algorithms:** Java
- **Systems Fundamentals:** C
- **Programming Abstractions:** Java, Python
- **Math:** Calculus I, II, III, Discrete, Linear Algebra