

SAM SINGH

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EDUCATION

Stony Brook University

Sep. 2017 – May 2021

Bachelor of Science in Computer Science & Applied Mathematics

GPA: 3.77 / 4.0; Dean's List, Presidential Scholarship

Relevant Coursework: Analysis of Algorithms, Cloud Computing, Data Structures, Data Science, Assembly

PROJECTS

Device Monitor

.NET Core, PostgreSQL, RabbitMQ, Entity Framework, Vue.JS, JWT

- Developed an application used to monitor over 100 printers, and 79 IoT devices/Scala TVs that is actively used by the Stony Brook Division of IT to maintain and service high-traffic devices.
- Created using a microservice based architecture that uses RabbitMQ as the message broker and can scale to support thousands of devices and handle heavy user traffic through Round Robin load balancing.
- Uses Entity Framework as the ORM to store and query data about the devices in a PostgreSQL database.
- Includes services such as a PDF Report/Analysis Generator, Mail alerts, and Automatic Ticket Generation.
- Developed a web app that serves as a dashboard and log viewer created using VueJS.

SBU LaundryView

Dart, Flutter, AWS, Node.JS, Typescript, Express, Amazon RDS, Java, Swift

- Created a cross-platform mobile application with 1000+ monthly active users which allows students to keep track of their laundry on campus and alerts them when their laundry is done.
- Utilizes the Flutter framework along with native code written using Java/Swift to manage notifications.
- Developed a RESTful API hosted on an AWS EC2 instance which routinely scrapes machine information created using the Express framework that stores the data in a Redis store.

EXPERIENCE

Lead Technician

Apr. 2018 – Present

Stony Brook University / Division of Information & Technology

- Delegated support tickets to technicians and trained them how to properly resolve various customer service issues.
- Provided repairs for routers, computers, and various IoT/peripheral devices. Created Windows SysPrep images that automate the installation of software/drivers which eliminated the need for manual setup of each computer.
- Led a team of student technicians to install AV equipment across the campus in residential lounges and deploy the Device Monitor application in order to remotely monitor the status of the devices.

Web Design Intern

May 2018 – Aug. 2018

Exit Landmark Realty / New York, NY

- Worked with a team to revamp the legacy website, making it mobile responsive and performed various SEO improvements which led to a 26.3% increase in site traffic in the first month.
- Assisted with wireframe mockup, branding guidelines and optimized HTML/CSS code.

LANGUAGES & FRAMEWORKS

Languages - C#, Java, TypeScript, Python, R, HTML/CSS

Mobile Development - Android (Java), iOS (Swift), Flutter (Dart)

Web Development - Node.js, Vue.js, Angular, D3.js

Databases – Microsoft Entity Framework, PostgreSQL, MySQL, MongoDB