SAM SINGH

✉ sam.singhny99@gmail.com   ☐ (347) 699-2152   👤 www.samsingh.dev   ⊙ github.com/sdesingh

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

EXPERIENCE

Software Engineering Intern   Jun. 2019 – Present
Stony Brook University Division of IT / Stony Brook, NY

- Created a microservice based application used to monitor over 100 printers, and 79 IoT devices/Scala TVs that is actively used by Stony Brook DoIT to maintain and service high-traffic devices.
- Includes services such as a PDF Report Generator, Mail alerts, and Automatic Ticket Generation which use RabbitMQ as the message broker where each transaction follows the Unit-of-Work design pattern.
- Full Stack development using .NET Core, Entity Framework, PostgreSQL, Angular and C#.
- Developed a web app that serves as a dashboard and log viewer created using VueJS.

Web Development 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.
- Reduced site load time by 45.9% by bundling and minifying static assets and JavaScript code using Webpack.
- Assisted with wireframe mockup, branding guidelines and refactored HTML/CSS code.

PROJECTS

LaundryView
Flutter, AWS EC2, 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.

Opus Finance Manager
Django, Sci-Kit Learn, NumPy, Pandas, Vue.JS, D3.JS

- Trained a linear regression model to predict stock trends based on closing stock prices and Google Trends scores using Pandas, NumPy, and Sci-Kit Learn.
- Generated smart recommendations based on the trend-line of a stock's prediction model and displayed them on a web app created using Vue.JS and D3.JS.
- Optimized the model to consider positive/negative company news in the past five years.

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
Databases – MS Entity Framework, PostgreSQL, MySQL, Redis, MongoDB