Sherzod Nimatullo

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Education

Stony Brook University   Stony Brook, NY
Bachelor of Science in Computer Science   *Aug. 2020 – Dec. 2022*

- Received the S-STEM ASSETS Scholarship, a prestigious award given to transfer students who have excelled academically and demonstrated a strong commitment to pursuing a career in STEM.

Suffolk County Community College   Selden, NY
Associate's in Computer Science   *Aug. 2018 – May 2020*

Experience

Rater — *Telus International*   Jan. 2019 – Present

Analyze and provide feedback on text, web pages, images and other types of information for leading search engines. Improved algorithm accuracy to better recognize spam and better categorize YouTube videos.

Software Engineering Intern — *PNC Bank*   Jun. 2021 – Aug. 2021

Collaborated with development team in Agile development with Azure DevOps to implement messaging queue dashboard using ASP.NET and Angular. Levered Test Driven Development to insure consistent code clarity and quality. Automated daily report aggregation using SQL, leading to increased productivity.

Web Developer — *Magic Flooring*   Jun. 2019 – Aug. 2019

Designed, developed and deployed platform that would fit all wood flooring business needs. Implemented backend service with Django, which organized incoming price estimate requests. Achieved 12% increase in traffic, visibility and click through rate.

Projects

State Redistricter - [Java, Spring Boot, JavaScript, React, MongoDB, Jupyter]   git.io/state-redistricter

- Simulated the effects of the H.R.3863 bill with Python on election outcomes using a multi-member ranked choice voting algorithm and Monte Carlo Markov Chains.
- Leveraged High Performance Computing Clusters to build ensembles of redistricting scenarios, incorporating factors such as gerrymanders, district shapes, and demographic information.
- Utilized advanced data analysis and visualization techniques such as the Canvas JavaScript library, to inform decision-making and contribute to a tool used by political strategists, policymakers, and researchers to better understand the impacts of redistricting.

Reminderse - [Python, FastAPI, JavaScript, Next.js, PostgreSQL]   reminderse.com

- Save-for-later web application which uses a spaced repetition algorithm to present the saved content at optimal intervals to maximize retention and recall.
- Designed REST API using the FastAPI Python library, which led to 30% increase in response speeds for backend requests compared to previous backend architecture.
- Improved the application by designing and implementing features that enhance user experience and contributed to its growth and success through updates.

Parachute - [JavaScript, Node, WebSockets]   parachute.nimatullo.com

- Secure peer-to-peer file transfer web application, serving as a platform independent alternative to AirDrop.
- Improved the functionality of the application by adding support for transferring files up to 1GB in size through the use of chunking, resulting in a doubling of transfer speed throughput.

Ghost Kitchens - [Java, Spring Boot, JavaScript, React, PostgreSQL]   youtu.be/wSX2Ocldlho

- Scalable and stateless sample food delivery service in response to the COVID-19 pandemic, recognizing the need for restaurants to have a reliable platform for delivering food to customers while facing unprecedented challenges
- Implemented an efficient and reliable system for receiving and processing orders, coordinating with restaurants and delivery drivers.

Best Use of Google Cloud Hackathon Winner   devpost.com/prodict

- Collaborated with a team in building multiple machine learning models to predict the Most Valuable Player (MVP) of the 2019-2020 NBA season.
- Utilized data analytics and machine learning techniques to analyze and interpret large sets of data, resulting in a 91% prediction accuracy.