NATHANAEL GUTIERREZ

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EDUCATION

City University of New York – Lehman College
Computer Science, B.S. (December 2021)
Major GPA: 3.975

Relevant Coursework

Data Structures	Algorithms	Machine Learning	Neural Networks
Database Systems	Networks	Operating Systems	Cryptography
Combinatorial & Graph Algorithms	Linear Programming	Computer Architecture	Programming Methods

SKILLS

Programming Languages	Java, Python, SQL, JavaScript, Kotlin, C++, Bash
Frameworks	Spring, React, Next, MPI4PY, PyTorch, scikit-learn
Databases	MySQL, PostgreSQL, MongoDB, Couchbase, IBM DB2
Other	Linux, HTML, CSS, LaTeX

EXPERIENCE

PRESERV Building Restoration Management, Inc. — Brooklyn, NY **July 2023 - February 2024**
Assistant Project Manager
- Oversaw several facets of building restoration projects in NYC, including but not limited to: materials purchasing; jobsite compliance with OSHA and DOB regulations; permit acquisitions and renewals; time and materials billing
- Coordinated communications between the on-site crew, engineers, architects, sub-contractors, and other design professionals on the project

Georgia Institute of Technology — Atlanta, GA **August 2022 - May 2023**
Graduate Research Assistant
- Integrated a metric to identify low-importance stable neurons into the Neuro-inspired Stability-Plasticity Architecture (NISPA) for continual learning
- Introduced a mechanism for controlled forgetting into NISPA by returning plasticity to a set of low-importance stable neurons between incremental task learning phases

American Express — Phoenix, AZ **January 2022 - August 2022**
Software Engineer
- Led the design and implementation of a new Authorization Manager API to facilitate corporate client access to account self-servicing portals using Java and Spring Boot
- Used data science techniques to analyze historical log data in order to determine the average number of requests per seconds received during peak loads at critical endpoints with Python
- Developed a suite of tests to flag suspected spam, duplicate, or otherwise forbidden accounts existing on the database

Institute for Advanced Computational Science — Stony Brook University, NY **June 2021 - November 2021**
Undergraduate Research Assistant
- Explored how initial conditions affect the amount of radioactive nickel produced during simulations of thermonuclear supernovae undergoing subsonic burning
- Achieved a 13X speedup on our analysis scripts by implementing a file distribution algorithm to analyze terabytes of simulation data in parallel across multiple cores
- Successfully ran simulations, tests, and analyses on an experimental A64FX (ARM-based) supercomputer

Andrews University — Berrien Springs, MI **August 2016 - Ongoing**
Freelance Software Developer
- Developed a full stack application to manage lab inventory, create work orders for maintenance, assist with lab setups and takedown, and generate custom reports