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PROFESSIONAL EXPERIENCE

BNY

Software Engineer

New York, New York

August 2024 – Present

- Contributed to engineering a **scalable** distributed cost basis platform processing over 2 million daily transactions.
- Optimized API and data pipelines with Java, Spring Boot, SQL, and Spark, resulting in a 60% performance boost.
- Collaborated with business stakeholders to implement **backend features**, accelerating release timelines by 40%.
- Ensured **code quality** leading code reviews, unit tests, version control standards w/ colleagues across time zones.

Wirtgen Group

Atlanta, Georgia

Full-Stack Software Engineer Contract

October 2023 – June 2024

- Directed the development of an inspection app with reporting that cut monthly operational costs by \$10,000+.
- Actively collaborated** with company stakeholders to refine product requirements, streamlining launches by 60%.
- Thrived in an agile environment, adeptly navigating evolving project requirements, increasing client satisfaction.

CLEAR

New York, New York

Software Engineering Intern

June 2023 – August 2023

- Pioneered a proof of concept in the flagship iOS app resulting in a significant speedup in verification time.
- Created a comprehensive full-stack demo service utilizing **Swift, React, & Flask** to propose to senior leadership.
- Implemented enhancements that streamlined CLEAR plus verification experience for over 5 million members.

Signify – Cooper Lighting Solutions

Atlanta, Georgia

Software Engineer Intern

January 2023 – May 2023

- Revamped the backend structure of Wavelinx Lite app leading to a 20% acceleration of API development time.
- Operated as a backend engineer building API's using **Java/Spring** Framework to enhance app functionality.
- Collaborated with frontend developers ensure seamless integration between frontend and backend components.

PROJECTS

Machine Learning Stock Trader

- Built a stock trading system using a Random Forest machine learning model to generate dynamic stock trading signals.
- Implemented custom technical indicators and engineered features to accurately predict optimal stock entry and exit points.
- Created a rigorous framework to assess the machine learning trader's performance through comparative analysis.

Euterra

- Developed a real estate platform that identifies prolific house flippers in a region using a custom **machine learning** model.
- Built a **data miner** in Python to scrape real estate data and indexed a PostgreSQL database for efficient storage & querying.
- Created a **full-stack web app** with React & FastAPI, providing users with easy access to view prolific house flipper data.

Wirtgen Inspection App

- Deployed a full-stack inspection app, featuring **predictive dashboards** for admins and photo-inspections for employees.
- Architected the app using React Native in the frontend and implemented a FastAPI backend with Python & PostgreSQL.
- Introduced a data-driven approach to parts replacement, empowering admins to minimize downtime and optimize costs.

SKILLS

Languages: Python, Java, Swift, JavaScript, SQL, Typescript, C, C++, HTML, CSS, SQL, PHP

Frameworks & Tools: Spring, FastAPI, Apache Spark, Hadoop, React, Flask, Django, SwiftUI, PyTorch, Node.js, SQLAlchemy

Fluent in Spanish - Received Georgia Seal of Biliteracy

EDUCATION

Georgia Institute of Technology

Atlanta, Georgia

Master of Science in **Computer Science** w/ **Machine Learning** specialization

August 2024 – December 2026

Relevant Coursework:

Machine Learning, Machine Learning for Trading, AI Ethics and Society, Digital Marketing Software

University of Georgia

Athens, Georgia

Bachelor of Science in **Computer Science**

August 2020 – December 2023

Relevant Coursework:

Software Engineering, Data Structures, Algorithms, Operating Systems, Web Programming, Mobile Dev, Computer Graphics