Eli Forman

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Education

Cornell University, BS in Computer Science and Mathematics　　　　　　　　　　　Aug 2021 – Dec 2024
- **GPA**: 4.01/4.00
- **Relevant Coursework:** Data Structures Honors, Algorithms, Functional Programming, Computer Organization, Systems Programming, Linear Algebra, Discrete Structures, Machine Learning, Probability Models

Experience

Software Engineer Intern, MongoDB – New York, NY　　　　　　　　　　　　　　June 2024 – Aug 2024
- Developed infrastructure for Atlas Device Sync team, which synchronizes offline local data with MongoDB Atlas cloud using conflict resolution via Operational Transformation (OT) algorithms
- Built concurrent load testing CLI tool utilizing goroutine parallelization to test synthetic workload replication sets. The load testing tool is now given to potential and future customers to test their synthetic workload by allowing them to configure dozens of server-specific parameters
- Improved client authorization system such that revoked users are now instantly disconnected and their access token is revoked immediately in order to prevent post-revoke illegal user breaching of the client system
- Implemented metadata pruning feature that trims deleted versions from the MongoDB partition sync history store for clients (has pruned billions of deleted versions to date)

Software Engineer Intern, Applied Invention – Cambridge, MA　　　　　　　　　　May 2023 – Aug 2023
- Built out extensive data pipelines and preprocessing algorithms for telemetric data collection from autonomous greenhouses (over 10 million data points)
- Researched and implemented various ML models (MSET, OCSVM, LSTM recurrent neural networks) for anomaly detection used to predict sensor software degradation

Machine Learning Intern, VFRAME.io – Berlin, Germany　　　　　　　　　　　　　May 2022 – Aug 2022
- Researched and developed state-of-the-art computer vision technologies for application to conflict zone monitoring, including identification of illegal weapons; implemented a real-time webcam for object detection and classification and developed browser deployment for the facial redaction ML model (DFACE)

Leadership and Awards

Founder and Lead Engineer, Glass – Cambridge, MA　　　　　　　　　　　　　　June 2023 – Current
- Founded Glass, a legitimate FinTech startup that uses cutting-edge LLM technologies to parse out critical financial insights from purchase agreements in order to provide customers the ultimate transparency and opportunity to save thousands of dollars when consuming online
- Built out entire end-to-end MVP application and deployed it for immediate public use (Node JS, Express JS, HTML, CSS)
- Beginning beta-testing and networking with partners to seal advertisement deals on TikTok and Instagram

Teaching Assistant, Cornell University – Ithaca, NY　　　　　　　　　　　　　　Jan 2023 – May 2024
- Lead discussion sections and graded homework and exams for CS2800 Discrete Structures

USAJMO Qualifier, Lower Merion HS – Philadelphia, PA　　　　　　　　　　　　　　Mar 2019
- Qualified among the top 240 students in the US in AIME and thus competed in the USA Junior Math Olympiad

Technologies and Interests

Languages: Java, Golang, Python, C++, C, C#, JavaScript, OCaml, SQL, MQL, RQL, HTML, CSS
Software: MongoDB, OpenAI, Oracle Cloud, .NET, React, XCode
Interests: Distributed Systems, Computer Vision, NLP, Investing, Competitive Math, Soccer, Piano, Cello