

Michael Goldfarb

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[in linkedin](#) | [website](#) | [github](#)

EDUCATION

Bachelor of Science with Honors, Computer Science & Business

Aug. 2021 - May 2025

Lehigh University – GPA: 3.70

Bethlehem, PA

Relevant Coursework Software Engineering, Database Systems, Programming & Data Structures, Systems Software

SKILLS

Languages Expert: Java, Python, HTML, CSS, JavaScript, SQL | Proficient: Swift, Rust, C++ | Familiar: Go, Solidity, C

Technologies React JS, Spring Boot, Postman, Pandas, NumPy, PostgreSQL, OAuth, Docker, Firebase, AWS, Git, Linux

Clubs Lehigh Coders Community (Professional Dev. Chair), Blockchain Club, AEPI (Treasurer, Academic Chair)

EXPERIENCE

Outlier

Jun. 2024 - Present

AI Consultant

Remote

- Train a generative AI model to enhance its ability to generate complex and specific coding solutions through RLHF.
- Fine-tune generative text responses from LLMs to produce high-quality and precise programming solutions.
- Develop sophisticated AI prompts to improve the model's performance in solving coding problems in Python and SQL.

Oracle

Jan. 2024 - Present

Software Engineer (Capstone)

Bethlehem, PA

- Improve transaction speed by 25% for ECB digital euro by adjusting Oracle DB using PL/SQL, REST APIs, and VBCS.
- Lead database sharding implementation, enhancing scalability and performance by 40% for high-volume data.
- Conduct database stress and benchmark tests versus OpenCDBC; developing mobile wallet app & monitoring GUI.

A.I.M.S Lab Mount Sinai Hospital

Jan. 2024 - Present

Machine Learning Intern

New York, NY

- Engineer multimodal models linking genetic, clinical, and social data, boosting disease prediction accuracy by 20%.
- Deploy advanced augmented intelligence models, boosting patient outcomes by 15% using deep learning algorithms.
- Create generalized disease prediction initiatives, ensuring early interventions and overall improved patient outcomes.

Lehigh Blockchain

Aug. 2023 - Present

Undergraduate Research Fellow

Bethlehem, PA

- Develop a Stellar-like hierarchical consensus mechanism to model a global cross-CBDC payment solution.
- Create a pseudo verkle tree in Rust with Marlin and ark_works libraries, improving cryptographic efficiency by 25%.
- Improve proof verification success by 20% by creating polynomial commitments and trie insertion methods.

STEM-SI

May 2023 - Aug. 2023

Software Engineer Intern

Bethlehem, PA

- Trained models on historical CDC data, achieving 85% prediction accuracy in future influenza cases.
- Designed powerful data visualizations in Python to provide actionable insights into mitigating influenza spread.

PROJECTS

OhConnections [🔗](#) [🌐](#) | HTML, CSS, React JS

Mar. 2024 - Present

Creator and Developer

New York, NY

- Create MLB version of New York Times' Connections, achieving over 1,000 active users within the first month of launch.
- Develop logic and state management for real-time user interactions, including user input handling and animations.
- Seamlessly integrate a user-friendly interface with visual MLB player groupings, increasing user retention by 25%.

MLB Game Predictor [🔗](#) [🌐](#) | Python, Pandas, NumPy, Spring Boot, React JS, PostgreSQL, AWS

May 2023 - Present

Creator and Developer

New York, NY

- Use machine learning to predict winner of MLB game; Scrape MLB Stats API to get stats from 2,430 past/current games.
- Develop linear regression & random forest models to predict winners; Clean & filter 20+ datasets using NumPy/Pandas.
- Create companion website with game predictions and prediction accuracy by team, attracting 500+ visitors monthly.

Mountain Hawk Food Finder [🌐](#) | Swift, Spring Boot, Python, Firebase

Jun. 2023 - Oct. 2023

Creator and Developer

New York, NY

- Developed a visually-appealing full stack iOS app for Lehigh dining, enabling easy navigation between dining options.
- Implemented backend code to store user information, item ratings (average/given), business hours, and daily menus.
- Designed and optimized app frontend to allow user to view eateries on Apple Maps and easily find dining options.