Michael Goldfarb

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EDUCATION

Lehigh University   **Bethlehem, PA**
Bachelor of Science with Honors, Computer Science & Business – GPA: (3.70/4)   *May 2025*
- Relevant Coursework: Software Engineering, Database Systems, Programming & Data Structures, AI Theory and Practice

EXPERIENCE

Oracle   **Bethlehem, PA**
Software Engineer (Capstone)   *Jan. 2024 - Present*
- Adjust Oracle database for ECB digital euro, leveraging PL/SQL, REST APIs, VBCS, and optimization
- Lead database sharding implementation to enhance database scalability and performance for high-volume data management
- Assist with Oracle database stress and benchmark tests versus OpenCBDC; create mobile wallet app & monitoring GUI

A.I.M.S Lab Mount Sinai Hospital   **New York, NY**
Machine Learning Intern   *Jan. 2024 - Present*
- Engineer innovative models for multimodal data, linking genetic, clinical, and social factors in disease analysis
- Contribute to the deployment of advanced augmented intelligence models using deep learning algorithms
- Create generalized disease prediction initiatives, ensuring early interventions and overall improved patient outcomes

Lehigh Blockchain   **Bethlehem, PA**
Undergraduate Research Fellow   *Aug. 2023 - Present*
- Currently working on a Stellar-like hierarchical consensus mechanism to model a global cross-CBDC payment solution
- Created a pseudo verkle tree in Rust using the Marlin library and the ark_works cryptographic libraries
- Assisted in creating polynomial commitments, insertion into trie, and verify proof of membership and non-membership

STEM-SI   **Bethlehem, PA**
Software Engineer Intern   *May 2023 - Aug. 2023*
- Trained models based on historical data from the CDC to predict futuristic amounts of individuals infected with influenza
- Created powerful data visualizations in Python to provide actionable insights into mitigating the spread of influenza

PROJECTS

MLB Game Predictor | *Python, Pandas, NumPy, Spring Boot, React JS, PostgreSQL*   **New York, NY**
Founder and Developer   *May 2023 - Present*
- Use machine learning to predict winner of MLB game; Scrape MLB Stats API to get stats from 2,000+ games

OhConnections | *HTML, CSS, React JS*   **New York, NY**
Programmer / Creator   *Mar. 2024 - Present*
- Create MLB version of New York Times' Connections with over 1k users

Mountain Hawk Food Finder | *Swift, Spring Boot, Python, Firebase*   **New York, NY**
Creator and Developer   *June 2023 - Oct. 2023*
- Developed iOS app for Lehigh dining; backend code storing ratings (average/given) for items, business hours, & daily menus

Solidity Semiswap | *Solidity*   **Bethlehem, PA**
Programmer   *Nov. 2023 - Dec. 2023*
- Designed ERC-20 to Ether Automatic Market Maker DEX; user can provide/estimate/withdraw liquidity & swap ERC/ETH

SKILLS

Languages: Java, Python, Swift, HTML, CSS, JavaScript, SQL, Rust, C++
Technologies: React JS, Spring Boot, Postman, Pandas, NumPy, PostgreSQL, OAuth, Bash, Docker, Firebase, AWS, Git, Linux
Clubs: Lehigh Coders Community (Professional Development Chair), Blockchain Club, AEPi (Treasurer, Academic Chair)