

# Michael Goldfarb

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## EDUCATION

### Lehigh University

Bachelor of Science with Honors, Computer Science & Business – GPA: (3.64/4)

Bethlehem, PA

May 2025

- Relevant Coursework: Software Engineering, Database Systems, Programming & Data Structures, AI Theory and Practice

## EXPERIENCE

### Oracle

Software Engineer (Capstone)

Bethlehem, PA

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 OpenCDBC; create mobile wallet app & monitoring GUI

### A.I.M.S Lab Mount Sinai Hospital

Machine Learning Intern

New York, NY

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

Undergraduate Researcher

Bethlehem, PA

Aug. 2023 - Dec. 2023

- Create a pseudo verkle tree in Rust using the Marlin library and the ark\_works cryptographic libraries
- Assist in creating polynomial commitments, insertion into trie, and verify proof of membership and non-membership
- Simplified verkle tree proof, combining commitments, enabling uniform membership and non-membership proofs

### STEM-SI

Software Engineer Intern

Bethlehem, PA

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

- Created 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, Firebase, AWS, Git, Linux, Docker

**Clubs:** Lehigh Coders Community (Professional Development Chair), Blockchain Club, AEPi (Treasurer, Academic Chair)