

# DAVID GLASS

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Curious and Analytical DePaul University Graduate.  
Dedicated problem solver, committed to finding a solution, and driven by the challenge.

## EDUCATION

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### DePaul University

Applied and Computational Mathematics BS, Minors: Computer Science and Physics

**Graduated March 2022**

Chicago, IL

**Highlighted Courses:** Data Structures (and Algorithms) I & II, Computer Systems I & II, Numerical Analysis I & II

## CORE COMPETENCIES

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Python (Skilled)

GNU + Linux (Skilled)

Object Oriented Programming (Skilled)

Back-End

iOS Development

Algorithms

Problem Solving

Social Engineering

Blockchain

Artificial Intelligence

Data Representation (Skilled)

Communication (Explaining Complex Topics)

Data Analysis

Physics Simulation

## PROFESSIONAL EXPERIENCE

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### DePaul University Math Department

*Undergraduate Student Researcher*

**June 2020 - Present**

Chicago, IL

- Developed tools for Dr. David Sher in Python to test hypotheses and represent fractions to prevent rounding errors.
- Made progress towards a general solution of the Frobenius coin problem.
  - Computed symmetry of 60 million sets; built database and frontend.
  - Proved when sets of embedding dimension 4 and cardinality 6 or 7 are symmetric.

### Apple Developer

*Full Stack Developer*

**November 2020 - May 2022**

Chicago, IL

- Built iOS and watchOS apps/frameworks in Swift and SwiftUI (AmmoTrac & TradersTool).
  - Utilized Lock Orientation, Back Ground Operations, Notifications, Threads, and Data Storage.
  - Designed application Backend, GUI, and API.

### Blockchain Developer

*Decentralized Application Developer*

**March 2022 - June 2022**

Chicago, IL

- Wrote smart contracts for Ethereum (Solidity) and Solana (Rust).
- Built a dapp (decentralized app) from the ground up to solve supply chain problems.
  - Implemented a token that conforms to the erc-20 interface, used by the dapp.

## TECHNICAL SKILLS

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### Languages

Python, C, Swift, Bash, Solidity, Rust,  $\LaTeX$ , Java, JavaScript, WolframAlpha, MatLab, Maple, HTML, TI-84, TI-Nspire.

### Libraries and Frameworks

SciPy, PyPy, Tikz/Circuitikz, HTMLParser, tkinter, SwiftUI, Hashlib, ETH/EVM, Solana, SQLite3, React.

### Software

Node.js, GNU/Linux, GDB, Vi/Vim, Apache, gcc/g++, Xcode, Cargo, VSCode, Git, IntelliJ, MatLab/Octave, Docker, VirtualBox.

### Databases

SQL, SQLite3, Blockchain, Text Databases, JSON.

### Cloud Computing

Amazon Web Services, Oracle Cloud Infrastructure, Linode.

### Discrete Mathematics

Computational Analysis, Number Theory, Combinatorics, Graph Theory.