Max P. Johnson

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EDUCATION

University of Notre Dame | Notre Dame, IN **May 2026**
Bachelor of Science | Majors: Computer Engineering, Mathematics GPA: 3.91

- Relevant Coursework: Data Structures, Systems Programming, Time Series Analysis, Intro to Artificial Intelligence, Computer Architecture, Digital Integrated Circuits 1&2, High-Level Synthesis, ML for Embedded Systems

Study Abroad | Rome, IT **Summer 2023**

EXPERIENCE

Coinbase | San Francisco, CA **Summer 2025**
Incoming Software Engineer Intern

Outerlands Capital | New York, NY **Summer 2024**
Quantitative Developer Intern

- Deployed Python models for automated, high-speed analysis and factor backtesting on massive price/vol data sets
- Led development of a mid-high freq. stat-arb strategy, significantly outperforming BTC with a Sharpe ratio >5
- Learned the basics of spot/perpetual trading through the systematic lens of machine learning and time series analysis
- Researched elementary market making algorithms, testing a variety of parameters and assets using Hummingbot

Web3Sense | South Bend, IN **Fall 2023 – Summer 2024**
Blockchain Developer Intern

- Initiated a model for systematic trading on X signals in Python using Pandas, NumPy, Statsmodels, and more
- Evaluated 10 NFT projects for real-world viability or profitability and achieved over 1.2 Ethereum in realized PnL
- Developed and optimized JS & Python libraries to interact with Ethereum contracts to facilitate NFT acquisition

PROJECTS

Digital Integrated Circuits – ASIC Trading Signal Generator **Fall 2024**

- Proposed, designed, and tested an automated trading signal generator circuit in Verilog and synthesized the design using the eFabless digital chipIgnite flow in GF180nm technology, to pass Multi-Project Wafer and Tapeout tests
- Designed standard cells in 0.5u technology which met lambda design rules and passed DRC, LVS, and extraction tests using Cadence Virtuoso, Layout GXL, and Analog Place and Route, as well as synthesized a MIPS 8-bit microprocessor using Genus Synthesis Solution and Innovus Implementation System

Predictive Analytics for Professional Sport Stats **Summer 2024**

- Assemble library of Python models to analyze NBA and MLB team/ind. data and determine "fair value" of stat line
- Utilize PyTorch and SKLearn for classification/regression ML model development for high EV bet identification

Missing Stuff | Eden Prairie, MN **Spring 2022**

- Constructed mobile app using Swift and CloudKit to facilitate the Eden Prairie School District's lost and found
- Designed a user-friendly UI in collaboration with an animator and marketer to promote child/parent-friendly use
- Uploaded and approved by the Apple App Store to be used by students and families in 8 district schools

ACTIVITIES

Quant Club | Notre Dame, IN **Fall 2022 – Present**
Board Member

- Introduce students to proprietary trading, market making, and probability through mock trading and lectures
- Leading and designing infrastructure for club trading competition to teach model building and active trading

TC Supply LLC | Minneapolis, MN **Summer 2018 – Spring 2022**
Co-Founder

- Analyzed and identified assets for investment while generating annual sales revenue exceeding $100,000
- Managed a diverse stock/digital asset portfolio producing returns exceeding the S&P 500 during portfolio's duration

SKILLS & INTERESTS

Skills: Python, R, C++, C, Java, Linux, Assembly (MIPS, RISC-V), Swift/SwiftUI, MATLAB, Cadence Virtuoso, Verilog
Interests: Skiing, Poker, Professional and College Football, Sudoku, Cooking, AI/ML, Blockchain Technology