Matthew J Murnighan

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TECHNICAL SKILLS

JavaScript, HTML5, CSS3, NodeJS, Python, React, React Native, MySQL, MongoDB, Sequelize CLI, Git, Jest, Command Line, Handlebars, Firebase, REST API, JQuery, Microsoft Excel, CQG, Algo Design Lab, Bloomberg Terminal

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FULL STACK APPLICATIONS & PROGRAMMING EXPERIENCE

Mentor Match │ *Northwestern University*   **2018**

- Collaborated on a team of five to create a chat application in React Native that uses an algorithm to match developers based on experience and technology expertise.
- MySql, Express, React Native, Node.js Stack.
- Created and maintained Rest API, providing endpoints to access various user data from MySql database. Response objects to HTTP requests written in JSON.
- Controlled by Sequelize ORM for consistent querying and table associations.
- Leveraged Jest to test and mock servers, and unit test helper functions.
- Developed in Andriod Studio and Expo sandbox environments.

Data Aggregator │ *HC Technologies*   **2016-2017**

- Created and maintained application in Python that parsed weekly, monthly, and quarterly reports from web into readable files to alter short-term trade forecasts.
- Improved trade latency by automating updates when reports released.
- Applied MatPlotLib for data visualization and context.
- Managed historical and current data in MySQL database.

EXPERIENCE

Northwestern University Coding Bootcamp │ *Teaching Assistant*   **November 2018 - Present**
- 24 week, full-stack web development immersive.
- Part of instructional team that teaches a curriculum covering every aspect of web application development.
- Work in a curriculum based on modern web technologies and current best practices.
- Keep students motivated, engaged and focused on successfully completing assignments and applications.
- Test, debug, and grade assignments and applications.

The Law Offices of Susan Bogart │ *Technical Consultant*   **July 2018 - Present**
- Consulting in federal software development trade secrets litigation.
- Manage Jira tickets and third-party database of over 150,000 documents.
- Organize trial, deposition & expert report documents in MySQL database to create dynamic summary documents.

Menomonee Holdings LLC │ *Trader*   **June 2017 - June 2018**
- See details below.

HC Technologies, LLC │ *Trader*   **January 2016 - May 2017**
- Deployed Data Aggregator to update short term price forecasts and influence trade execution.
- Created and maintained Commitment of Traders report to map market positions.
- Ran various term strategies across CME futures and options markets.

Menomonee Holdings LLC │ *Trader*   **October 2014 - January 2016**

- Established a self-funded trading operation.
- Applied Algo Design Lab to implement relative arbitrage and TAS strategies.
- Created an automated short-term fundamental arbitrage strategy that ran in eight contracts across several CME agricultural products.
- Successfully deployed open interest and cost of carry hedging strategy across five commodities.

Edge Trading LLC │ Partner; *Trader*   **January 2012 - October 2014**

- Managed active short, mid, and long-term positions across multiple commodity futures curves.
- Migrated correlation processes to further influence trade decisions.
- Solely responsible for trading profits totaling approximately $750,000 on $50,000 initial capital invested.

Icarus Trading │ *Trader*   **September 2008 - January 2012**
- Created indices in Bloomberg Terminal and implemented custom, non-exchange listed, inter-commodity spreads.
- Established top-down correlation process used to filter risk and influence trade decisions.
- Collaborated on agriculture and US treasury futures and options positions.

EDUCATION

Northwestern University   **May 2018**

Software Development Bootcamp

24-week program dedicated to building web applications using various languages and technologies

University of Illinois at Urbana-Champaign   **May 2008**

Bachelor of Liberal Arts and Sciences Degree – *Political Science & Government*

LEADERSHIP

Christ the King Jesuit College Preparatory High School   **August 2011 - December 2015**

Rising Leadership Council Member

Hobbies & Interests

Cooking

Most things from scratch, for friends and family.

Tutoring

Help students outside of class debug and solve problems.

Reading

History and Political Non-Fiction.

Basketball

Play a nice pick and roll.