

## ANDREW CRAWFORD

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### Summary

I am independently building algorithms to process large datasets. Having experience on a team collaborating with customers daily, I'm an expert at communication, collaboration across teams, and explaining complex concepts in plain english. Reading the Bitcoin whitepaper I took an interest in blockchain applications and development. I am making a career change from banking to enter a role in blockchain as I continue learning programming and engineering. I want to see the friction of the economy reduced using this technology and deeply unmoving jobs to be automated in the banking sector.

### Technical Skills

**Tools:** Time-Series Analysis, Linear Regression, Logistic Regression, Classification, Jira

**Libraries:** Sklearn, tensorflow, keras, Scikit-learn

**Languages:** Python, STATA, R, SQL, VBA, APIs

**Data Visualization:** Tableau, Plot.ly, Leaflet.js, Matplotlib, Seaborn, HTML

**SQL:** PostgreSQL, MongoDB

**Python:** Pandas, PyViz, NumPY, SciPy, SQLAlchemy, VisualCode, Jupyter Notebook, Spyder

**Amazon Web Services(AWS):** SageMaker

**Excel:** VBA, Macros, Pivot Tables/Charts, Index/Match VLOOKUP

Models:

### Projects

#### **Predicting Fintech Bootcamp Salary | [https://github.com/Crawnicles/Project2\\_GroupC](https://github.com/Crawnicles/Project2_GroupC)**

- Using job descriptions and key skills, this model predicts the salary of a job given the skills required to perform the job.
- Responsibilities included Data Exploration, Data Preparation, and Data Cleanup. Using the Monster API we isolated jobs with relevant skills from class.
- Tools / languages used - Python, Machine learning models

#### **The 'Fun' in Non-Fungible Token | [https://github.com/Crawnicles/Project\\_1\\_Group\\_3](https://github.com/Crawnicles/Project_1_Group_3)**

- Using OpenSea NFT API, we analyzed the market for NFTs
- My core responsibilities were to clean data and create visualizations
- Written in Python using pandas, hvplot, and bokeh

#### **Stocks and Crypto Portfolio | <https://github.com/Crawnicles/5---API-Financial-Planner>**

- A personal financial portfolio including stocks and crypto pulled from APIs
- Written in Python with Alpaca data

### Experience

**SWIFT Support****2021 – 2022****US Bank**

St Paul, MN

Performed UAT testing and analysis of SWIFT messages in order to ensure accuracy and identify errors proactively and communicate with multiple teams utilizing SWIFT messaging.

**Key Accomplishments:**

- Reduced redundancy in data storage by utilizing a shared cloud storage
- Automated half of my day to day work building macros and using rules in outlook

**Capital Markets Analyst I****2019 – 2021****Wells Fargo**

Minneapolis, MN

Managed incoming margin calls for derivative trading, managing 25+ systems/software daily, and solving client problems as they arise. Conducted dispute and break reconciliations, and prepare reports for consideration and presentation by senior management

**Key Accomplishments:**

- Implemented a three person pod structure to silo the tasks of one analyst into three roles - margin calls, breaks, and disputes and tracked performance metrics
- Created training guide through powerpoint introducing new macros, decision trees, flow charts, and step-by-step instructions

**Education****Boot Camp Certificate: University of Minnesota, Minneapolis, MN**

A six month program practicing technical programming skills in Python, JavaScript, SQL Databases, Tableau, Big Data, Blockchain, and Machine Learning.

**BA Economics: University of Minnesota, Minneapolis, Minnesota****Minor in Spanish: Fundación Ortega y Gasset, Buenos Aires, Argentina****RYT 200 Certificate | Yoga Alliance, Minneapolis, Minnesota**