

# Mason Choi

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## EDUCATION

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- Current senior at the University of Massachusetts Amherst, **3.95 GPA**
  - Dual Degree in Computer Science (BS) and Mathematics (BS) with a concentration in Data Science
  - Machine Learning (CS 589) – University of Massachusetts Amherst – ~A
  - Principles of Big Data Processing (CSCI E-88) – Harvard Extension School – A
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## WORK EXPERIENCE

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### AI Stealth Startup

(April 2024 - Present)

*Lead Software Engineer*

- Configuring company servers to handle large streams of financial data and deploying machine learning models to extract insights from them.

### Atlantic Prime Estates LLC

(June 2023 - April 2024)

*Data Engineer Contract, Head of Data*

- Built advanced housing data aggregation pipelines to push exclusive API data into AWS hosted MySQL databases for later mathematical analysis
- Compared multiple regression and time series models to more accurately predict appreciation rates, building out the fund's most valuable market analysis tool

### Solve Advisors Inc.

(March 2022 - June 2023)

*Developer/Analyst, Junior Data Engineer*

- Automated manual bond and loan data pricing with Selenium and Google's OAuth2 API in custom AWS EC2 instances
- Collaborated with AI/ML team to develop a US Securities and Exchange Commission (SEC) BDC parser with Python web scraping APIs, saving the company an estimated 848 hours annually

### Advantage Data Inc.

(September 2021 - March 2022)

*Junior Data Engineer*

- Developed Python scripts to scrape, parse, transform, and load government collected financial data into the company's Google BigQuery database (ETL process), replacing hundreds of hours of manual work
  - Worked with development team to deploy data pipelines directing source data into our system with Python and SQL
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## SKILLS

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- Languages: Python, Java, SQL
  - Libraries: TensorFlow, Requests, NumPy, Matplotlib, Pandas
  - Frameworks: React, Flask, Django, React Native
  - Tools: AWS, Git, Docker, Hadoop, Spark, Microsoft/Google suites
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## PROJECTS

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### Stock Market Analysis Website (Anchor-AI)

(Python, JavaScript, TensorFlow, Django, MySQL, AWS S3 Storage, AWS EC2 Computing)

- Manipulated price data from stock symbols with NumPy and Pandas to develop multiple regression models using Google's TensorFlow library
- Utilized AWS S3 Storage to store trained weights and Matplotlib analysis graphs, and utilized AWS Elastic Cloud Compute Instances to train models in the cloud with Linux Cron jobs

### SaaS File Sharing Platform (filess.org, deprecated)

(Python, JavaScript, Flask, AWS S3 Storage, Google OAuth, Stripe API, MySQL, SQLAlchemy)

- Hosted user files in AWS S3 cloud storage for quick uploads, downloads, and viewing
- Stored user account information in Heroku hosted MySQL database using the SQLAlchemy ORM