

Mason Choi  
201 West Brookline Street, Boston, MA, 02118  
Choi.mason@gmail.com  
Personal Website: <https://masonchoi.net>  
LinkedIn: <https://www.linkedin.com/in/masonchoi/>

---

## WORK EXPERIENCE

---

### **Solve Advisors Inc. (March 2022-Present)**

*Developer/Analyst, Junior Data Engineer*

- Automated manual bond and loan data pricing with Selenium and Google's Oauth API in AWS EC2 (cloud computing) saving the company an estimated 1650 (don't think so) hours annually
- BDC parser saves company 848 hours annually

### **Advantage Data Inc. (September 2021-March 2022)**

*Junior Data Engineer*

- Developed Python scripts to scrape data from SEC, parse and transform the data, and load it into the company database (ETL process), replacing hundreds of hours of manual work
- Collaborated with team to deploy data pipelines directing source data into our system with Python and SQL

---

## COMPUTER SKILLS

---

### **Languages**

- Proficient in Python, Java, HTML5, CSS and have working knowledge of C++, JavaScript, SQL

### **Software**

- Database: GCP Big Query, MySQL, sqlite3
- Platforms: G-suite, Windows 10, AWS, Git, Linux, Google Cloud Platform, Microsoft 365
- Libraries: TensorFlow, Requests, NumPy, Matplotlib, Pandas, Selenium

---

## PROJECTS

---

### **<http://anchor-ai.online>, Stock Market Predictions Website (Anchor-ai)**

*Used: Python, TensorFlow, Django, MySQL, AWS S3 Storage, AWS EC2, HTML, CSS, JavaScript*

- Manipulated price data from stock symbols with NumPy and Pandas to develop multiple regression models using TensorFlow
- Utilized AWS S3 Storage to store trained weights and matplotlib graphs for V1 and utilized AWS Elastic Cloud Compute to train models in the cloud with Linux Cron jobs
- Deployed the website with Heroku and it has grown to 250+ returning users and 85+ new users a month

### **Multi-Use Computer Vision App (React-Native-Image-Classfier)**

*Used: JavaScript, React Native, TensorFlow, RN Navigation, RN Camera*

- Developed a mobile application that can identify species of plants and animals, identify everyday objects, scan QR codes, save photos, and identify specific colors in a photo
- Utilized Google TensorFlow's Mobile Net model containing 1000 classes for CNN classification
- Integrated React Native Navigation to navigate between screens and Camera for photo capture

### **Original Music Generator (AI-Singer)**

*Used: Python TensorFlow, BeautifulSoup, Requests, NumPy*

- Implemented Andrej Karpathy's famous long short-term memory (LSTM) model in TensorFlow to generate original melodies and lyrics
- Used web scraping with Requests and BeautifulSoup 4 to collect top song lyrics online

---

## SUMMARY

---

I have a large amount of experience writing Python scripts, deploying ML models in projects, mobile applications, and web applications, and building out data pipelines. I possess excellent communication skills, a hard-working mentality, and an aptitude for picking up new skills and practices. My professional experience has given me insight into what it means to get things done, work with others, and has provided me with an ever-growing suite of tools to use on the job.