

Meitong Chen

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EDUCATION

Johns Hopkins University

Expected Graduation: May 2023

Master of Science in Engineering, Financial Mathematics | GPA: 3.80/4.00

Baltimore, MD

Coursework: Introduction to Algorithms, Databases, Introduction to Data Science, Stochastic Processes, Optimization in Finance, Time Series Analysis, Applied Statistics and Data Analysis

BNU-HKBU University United International College

Sept. 2016 - Jul. 2020

Bachelor of Science in Financial Mathematics | GPA: 3.48/4.00

Zhuhai, China

Coursework: C++ Programming Languages, Data Structure, Python for Finance, Linear Algebra, Advanced Probability, Financial Mathematics, Financial Modelling, Numerical Analysis

EXPERIENCE

Quantitative Software Engineer

Aug. 2020 – Jul. 2021

Blockpulse Digital Asset Management

Shenzhen, China

- Used **Spring Boot** framework to develop back-end services for an automated trading app to manage HTTP requests which included trading logs, profit and loss records, historical and predictive Bitcoin price data
- Interacted with **MySQL** databases using **MyBatis** to retrieve, store, and process user and trading data
- Ensured high code quality by conducting functional unit testing with **PowerMock**, achieving 90% code coverage
- Worked closely with a team of 10 in the development of back-testing of quantitative strategies using **Python** BackTrader library, including grid strategy, random forests-based strategy, and time series data modeling

PROJECTS

urLibrary | *Python, Flask, Angular, MongoDB, DBNet, CRNN*

Jan. 2023 – Mar. 2023

- Developed a **Python**-based online library web application with Angular as the front end, **Flask** as the back end, **MongoDB** as NoSQL database, featuring functions for uploading, searching, rating, and listing popular books
- Created a text-based search feature by integrating OpenAI's API with MongoDB queries to retrieve book details
- Developed an image search feature based on combination of **Differentiable Binarization Network** with the **Convolution Recurrent Neural Network** to detect the name of a book via uploading cover image

All Hockey | *MySQL, PHP, HTML, SQL Stored Procedures*

Oct. 2022 – Dec. 2022

- Developed a responsive website by utilizing **PHP**, **HTML**, **CSS** and **MySQL** to display popular hockey players profiles and allow users to sign in, sign up, vote, and search for winning percentages
- Utilized **Pandas** and **Requests** Python libraries to scrape data from the public website and populated databases
- Predict winning percentages by building logistic regression in SQL Stored Procedure using historical game records

Newswipe | *Android, Room Database, Retrofit*

May 2022 – Jul. 2022

- Developed an **Android app** with Java using the **MVVM Google Component Architecture**, featuring hot news display, keyword-based news search, news saving, news sharing, and automatic news scrolling
- Implemented **CardStack View** to create OnSwipe interactions for liking and disliking news
- Constructed a **Room Database** with **LiveData & ViewModel** to support offline mode and local caching
- Integrated **Retrofit** and LiveData to request updated news data from a RESTful endpoint using newsapi.org API

Order Now | *Java, Spring, Hibernate, Maven, ReactJS, AWS EC2, Docker*

Jan. 2022 – Mar. 2022

- Developed a **Java-based** online food ordering web application with **ReactJS** front end and served **RESTful API**
- Utilized the **Spring MVC** Java framework to manage registration, login, commenting, and checkout requests
- Ensured the web was secure through providing authentication and authorization via **Spring Security**
- Created a relational database using **MySQL** and **Hibernate** which contained menu, order, and comment data

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML, CSS, R, MATLAB, PHP

Frameworks/Libraries: Pandas, ReactJS, AngularJS, Maven, Hibernate, MyBatis, Spring MVC, Spring Boot, Flask

Tools/Databases: Docker, AWS, GCP, Git, VS Code, Android Studio, MySQL, Elasticsearch, MongoDB

Certifications: Java For Programmers, React for Front-end Developer Offered by Educative