
EDUCATION

CARNEGIE MELLON UNIVERSITY

Pittsburgh, PA | Sept 2021 - Dec 2022

- Master of Information Systems Management - Business Intelligence and Data Analytics GPA: 3.67/4.00
- Coursework: Data Structures for Application Programmers, Web Application Development, Coding Bootcamp, Cloud Security, Objected Oriented Programming in Java, Unstructured Data Analysis, Machine Learning for Problem Solving

WUHAN UNIVERSITY

Wuhan, China | Sept 2017 - Jun 2021

- Bachelor of Economics in Financial Engineering, Dean's List 2017-2018, 2019-2020 GPA: 3.84/4.00
- Leadership: TA for Time Series Analysis; Vice President of Radio Station; Leader in Interdisciplinary Modeling Contest

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, HTML5, CSS, SQL, R, Stata

Frameworks: Django, Angular, React, jQuery, Spring, TensorFlow, PyTorch

Tools: AWS, Azure, Docker, MySQL, git, Bootstrap, Jupyter, Maven, Unity3D

Analytics: Dynamic Optimization, Time Series Analysis, Statistical Analysis, Modeling, Stochastic Process, Linear Programming

Certificates: **AWS Certified Cloud Practitioner**, Deep Learning Specialization

SELECTED PROJECTS

[Angular | TypeScript | RapidAPI] Weather App

Summer 2022

- Developed a Web-based weather application in which users can get the meteorological information (temperature, humidity, wind velocity, etc.) by simply inputting the name of city
- Applied Angular CLI to generate the full stack of application; used TypeScript, HTML to construct the underlying components
- Connected the application to Weather Map API from RapidAPI Hub to get global weather data resource

[Django | HTML & CSS | JavaScript | AWS EC2] Quiz Monkey: Web Application Development

Spring 2022

- Led a team of three and successfully implemented a quiz website which users can either make quizzes or take quizzes through PIN code; quiz details and submissions are displayed and/or downloaded as Excel files
- Designed the web front-end using Bootstrap 5 as the UI/UX tool; utilized Python (Django), JavaScript to implement backend of application and test functionalities
- Conducted cloud deployment for the website hosted on an AWS EC2 instance

PROFESSIONAL EXPERIENCE

CONQUER MONEY

New York City, NY

Software Development Engineer Intern

Jun 2022 – Aug 2022

- Improved the functionality of regularly updating of users' bank account balance and credit limits by applying webhooks and APIs from Plaid and developing backend web services in Spring; boosted the general usage experience by 50%
- Developed a push notification feature using JavaScript, and memory queue for "Top Credit Card Choice" of Conquer Money, consisting of offline selection, online planned execution, and speed control; increased 25% of users to click in and view
- Built a controlling platform capable of deploying, configuring, and rolling back AI models with Angular, Docker, databases (Aurora, Azure Data Studio, AWS RDS) and CI/CD pipelines; saved developers' time by over 70%
- Designed certain features of the application's front-end page in ReactJS, such as turning the input text to dropdown list for user's location information, implementing Bootstrap 4 in base template, etc.; increased over 30% of viewing activity on average

BARCLAYS BANK

Jun 2020 - Aug 2020

Quantitative Risk Analyst

- Applied Python, MATLAB, Excel to successfully develop account-level modeling for over 10 million clients based on their individual raw data, MOB and low/high FICO score in default probability of credit risk, and completed the baseline loss curves in Barclays CCR model development
- Utilized Python to find stocks with abnormal trade volume in NASDAQ and marked the timing in accordance with daily volume, resulted in relevant perspectives and predictions in company revenue dynamics