Matthew Pan

matthewdukepan@gmail.com | LinkedIn | Website | GitHub | Montreal, QC (US citizen/can relocate)

Education

Bachelor of Science, Computer Science

Concordia University – Montreal, QC.

Courses: Data Structures & Algorithms, Java OOP, Web Applications, C++ Program Design, Big Data Analytics.

Experience

Cisco Systems, Inc. – San Jose, CA.

May 2021 - Now

Software Engineer Intern

Full-stack development on their CX Cloud platform (Java, Angular, AWS).

Genetec, Inc. – Montreal, QC.

Jan 2021 - Apr 2021

Software Developer Intern

Full-stack development in a large microservice codebase following the Kanban methodology with Azure DevOps.

- Improved software security by implementing back-end features such as tracking screenshots taken from a video and implemented/debugged over 20 front-end features (C#, REST APIs, ReactJS, TypeScript, Redux, Flux).
- Reduced CPU usage of their app by up to 20% by implementing a feature to limit the number of parallel file uploads and learned to debug multithreaded applications (semaphores, locks, event handling).
- Improved coverage by writing unit/integration tests. Learned to debug functional tests that run in Docker Compose and Publish-Subscribe message queues (Azure Service Bus, Jest, Enzyme, xUnit).

Concordia University – Montreal, QC.

Jan 2021 - Apr 2021

- **CS Teaching Assistant**
 - Prepared and conducted weekly tutorials for over 30 students in the course Object-Oriented Programming II (Java).
 - Learned to better explain technical concepts, gave detailed feedback and received a 98% rating from my students.
 - Recorded my live sessions and uploaded them to YouTube to help all future students (>500 views).

Projects & Extracurricular

r/WallStreetBets DD Recommender – GitHub

Jan 2021 - Now

- Creating a website to make the access to stock research easier. Aimed to help busy retail investors quickly filter out the best stock trends. Currently gathered over 50 sign ups through the landing page built with Google Firebase.
- Preprocessed large amounts of data after retrieving them with the Reddit API and labelled the data with the growth percentage of a stock associated with each post (Python, Spark RDD/DataFrame, SparkNLP).
- Trained a model with the Naïve-Bayes algorithm which can detect if a reddit stock post is good or bad with 70% accuracy. It proved good enough to be used as a recommender (scikit-learn).

Online Grocery Store – Website

Jun 2021 - Aug 2021

- Led team of 6: organized meetings, delegated tasks, helped teammates debug, etc., leading to a final grade of 100%.
- Implemented the entire login system to allow CRUD operations on the user list (JavaScript, PHP, MySQL, HTML, CSS).
- Designed the overall website concept/layout, implemented responsive home & product pages and deployed on Heroku.

Software Engineering and Computer Science Society, VP Academic

May 2020 – May 2021

- Initiated a YouTube Channel to deliver various technical workshops to over 1000 students and successfully recruited 5 companies (e.g.: Google, Shopify, Autodesk) to participate in our events and provide sponsorships (200\$+).
- Led 2 directors, helped them onboard with the team and taught them how to reach out to companies.

Skills

Programming: Java, JavaScript/TypeScript, Python, C#, C++, PHP, SQL

Other: Git, ReactJS, Redux/Flux, Angular, HTML, CSS/Bootstrap, Django, Jest, Apache Spark, scikit-learn, Azure, Microservices