Brandon Fan

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EDUCATION

UNIVERSITY OF MICHIGAN — **Ann Arbor, MI**

College of Engineering | Computer Science, BSE, May 2024
- Project MEND – Electrical Sub-team
- Cumulative GPA: 3.93/4.00

Stephen M. Ross School of Business | Business Administration, BBA, May 2024
- Emphases in finance, strategy, and social impact through entrepreneurship
- Cumulative GPA: 3.91/4.00

SKILLS

Programming Languages: Python, C++, R, Javascript, Java, Ruby on Rails
Frameworks: Docker, Container Orchestration, Multithreaded Programming, Pytorch, Sklearn Flask, Mapreduce, Pytest, TensorFlow, Keras, Angular, React, Ionic
Courses: Data Structures and Algorithms
Interests: Golf (+4 Handicap), Swimming, Poetry, Guitar, Piano

EXPERIENCE

MICHIGAN INVESTMENT GROUP – VP of Quant Education — **Ann Arbor, MI**
2020-PRESENT
- Led a team of 6 analysts to create the full-stack platform using an Angular/Firebase, Google Cloud Backend for Algorithms utilizing Docker Containers, Google Cloud Run, Microservices, and Kubernetes.
- Managed natural language project team via sprints and feature timelines to develop earnings call summarization algorithm for better investment analysis using TARSClassifier.

SUMMER 2021 **Patensys – Product Management Intern** — **Ann Arbor, MI**
- Managed 3 developers in creating a full-scale patent management system and automation of docketing tasks, gathering data directly from the USPTO data source.
- Implemented Vue frontend, deployed an Express.js middle-end connection to a backend Solr database connection. Worked closely with founders for better system architecture and implementation.

2021 - PRESENT **BLANKLY - Co-Founder (**blankly.finance**)** — **Ann Arbor, M**
- Co-founded an open-sourced framework that allows developers to rapidly build, test, and deploy quantitative models on any exchange (Nasdaq, Coinbase, Binance) with over 100 active GitHub users and 10K trades made through the package.
- Designed and implemented backend architecture to containerize user's models on AWS platform with seamless CI/CD pipeline and simple interface to start and stop models.

2020 WINTER **THE UNIVERSITY OF IOWA TIPPIE COLLEGE OF BUSINESS – Research Intern** — **Iowa City, IA**
- Published paper on the use of transformers and contextual embeddings to extract product innovation sentences from 150K Amazon reviews with a 0.88 F1 Score and 89% accuracy.
- Developed testable model using Pytorch and Flair, conducted research, and co-wrote and edited the final paper published in the Journal of Information Processing & Management.

PROJECTS

AWAKEN PRAYER APP (awakenapps.com)
- Created an online prayer platform designed to empower Christians in every aspect of their faith through the management of prayer requests, prayer items, and intentional prayer.
- Developed beta product using Angular, Ionic, and Google Firebase and deployed product to test markets at University of Michigan - Ann Arbor, Virginia Tech, University of Virginia, JMU, and more, with an increase of 300% usership in 6 months.

COMARKET MOVEMENTS IN EQUITIES
- Utilized the Facebook prophet model to develop a better correlation statistic to measure correlating market movements between equities for better arbitration trading methods. Found interesting relationships between multiple equities across industries.
- Used Docker Containers combined with Google Cloud Run and Cloud Scheduler to deploy for weekly reports on market movements and relationships