Cyrus Jia

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About me: I'm a product-minded software engineer with startup experience that has led multiple 0 to 1 ventures, built distributed backend applications, trained RL/ML models, and designed profitable quantitative trading systems.

Professional

Engineering Lead, **Gopuff** 10/2020 - 03/2023

- Founded Kitchens tech team from 0 to 1, scaling to a $XX M run rate as both the Product Manager and Engineering Lead
- Led/Hired entire Software Engineering team of 5 Engineers, balancing business value, scrappiness, speed, and technical debt
- Built distributed cloud native systems, databases, CI/CD pipelines, and testing frameworks based on business needs
- Ran weekly syncs with Operations and Strategy leaders to align on business goals and set priorities for the engineering team
- Reported weekly progress to the Gopuff executive team and managed relationships with partners (Stripe, Toast, SpeedETab)
- Infra/Stack**:** AWS/GCP/Azure**,** Typescript/Nest, Express, Postgres, GraphQL, Serverless, SocketIO, Message Buses, K8s, Terraform

Advisor**, Venture Capital** (under NDA) 06/2022 – 09/2022

- Collaborated with 2 partners at multi-billion $ VC firm to incubate SaaS startup from 0 to seed funding, raising $X M at $XX M post
- Synthesized pitch deck and investment memo after performing deep research into market segment
- Created product strategy, customer research, product design, distribution/go-to-market, competitive landscape research, engineering architecture design, market sizing, and worked with a Principal on financial projections and modeling
- Infra/Stack: Google Docs, Google Sheets, Google Slides, Zoom

*Engineering Lead***, Bandit** (acquired by Gopuff, 10/2020) 12/2019 – 10/2020

- Led/Hired 4-person Software Engineering team at Seed Stage, Venture Backed mobile commerce startup, leading to acquisition
- Navigated and led all technical aspects of our acquisition by Gopuff, including due diligence and 1:1s with acquiring C-levels
- Architected and wrote the API Backend and built integrations/managed relationships with Stripe, Toast, and SpeedETab
- Partnered with CEO on product roadmapping, user-first product building, agile engineering, quick pivoting, and iterating
- Infra/Stack**:** AWS/GCP**,** Node, Typescript, Express, MySQL, Firebase, Serverless, Swift, CI/CD, Automated Testing

*Software Engineer***, Bridgewater Associates** 06/2018 – 09/2019

- Trade Generation and Portfolio Construction team at world's largest hedge fund, responsible for $160B in AUM
- Optimized and built across systems and internal tooling to optimize day to day trade generation for entire fund
- Designed a genetic algorithm from scratch to solve the scheduling problem in Python
- Infra/Stack: Almost all in-house, high performance computing jobs, schedulers, Python, C#, SQL, SSIS ETL, Chef

Past Experience: *SWE @* ***IBM T.J. Watson Research Center + Labs*** *'16-'18, Algo SWE @* ***ISTI*** *'16*

Projects

Crypto Blockchain Venture (under NDA) 09/2021 – 02/2022

- Bootstrapped and co-led a new venture. Ran strategy, product, engineering, and marketing, scaling to 10k+ users and 1000s req/s
- Built tech stack across frontend (React), backend, and data layer (AWS + Solana Blockchain)

Crypto CEX/DEX Arbitrage 09/2021 – 02/2022

- Executed hundreds of profitable arbitrage trades across trading pairs between centralized/decentralized exchanges

Algorithmic Sports Betting and Forecasting 11/2020 – 02/2021

- Modeled and forecasted NFL daily fantasy sports using proprietary linear algebra and stats models in Python to generate returns
- Partnered with Stanford Math professor (Probability + Gambling) and a UPenn Math researcher

Kaggle Halite (Online PvP)**, Two Sigma** 04/2020 – 09/2020

- Developed and iteratively trained multiple deep reinforcement learning agents using rainbow DQN in Keras + Pytorch
- Built NNs using convolutional/dense layers, replicated AlphaZero architecture, and wrote library to convert Keras->Pytorch models

Magic the Gathering Online, Algo-Trading Arbitrage 11/2019 – 08/2020

- Ran a profitable arbitrage bot generating ~200x annual returns on cost of inventory, working w/ a Math Researcher @ UPenn

Deep Reinforcement Learning for Cadaveric Hands 08/2016 – 12/2016

- Designed and trained a machine learning neural network using TensorFlow to build a regression model for fitting cadaveric hand muscle tension data to predict force output. Proved linearity of muscle force translation. Contributed to Python RandOpt library

Education

University of Southern California *B.S. in Computer Science, B.S. in Electrical Engineering*