Jason Yang

EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
B.S. in Computer Science and Engineering — *Aug. 2018 – Feb. 2023*

GPA: 4.3/5
Relevant Coursework: Fundamentals of Programming, Algorithms, Machine Learning, Complexity Theory, Software Construction, Discrete Math, Computational Structures, Autonomous Decision Making, Signal Processing

EXPERIENCE

Regard — Feb. 2023 – Present
Software Engineer II - Diagnostic Core — *New York, NY*

- Architected and spearheaded application to mathematically express diagnostic criteria, building end to end the backend service using Python with FastAPI, OpenAPI, Postgres and frontend client using Typescript with React, enabling a 10x speed up for supporting a new condition in production
- Led technical project to integrate a new clinical concept into the core application, leveraging patient data to enable scalable condition diagnosis, resulting in supporting 1000+ new possible diagnostic expressions
- Championed and executed a refactor effort to deprecate a large chunk of the core app, leveraging protocols to consolidate dependencies of 8 critical classes thus decreasing maintenance and increasing code health
- Retained end-to-end ownership over main internal tool backend and shared responsibility for maintaining documentation, code reviews, testing, incident triaging and debugging, leading to average downtime of less than 20 minutes
- Drove forward-thinking to ongoing project to migrate a previously untyped API to OpenAPI specification and successfully deployed changes to 3 live endpoints using strangler fig pattern, effectively ensuring backwards compatibility for production environment
- Modernized internal user feedback ticketing system to leverage LLMs instead of manual triaging, enabling automatic ticket generation and assignment and completely eliminating a combined 10-15 hours of dev time commitment per week
- Formulated design documents and led team of 5 through an extensive design review while collaborating cross-functionally with engineering, design and product, resulting in successful execution of a 1.5 month project

J.P. Morgan Chase — Jun. 2022 – Aug. 2022
ML Engineering Intern - Commercial Banking — *Palo Alto, CA*

- Pioneered and deployed various NLP models at scale for instance deduplication on proprietary dataset of 200 million company entries, resulting in a discovery of 8 million previously missed duplicate entries
- Leveraged various text generation and style transfer techniques to combat class imbalances in skewed data, placed 3rd within intra-firm hackathon

MIT Kavli Institute — Sep. 2019 – Dec. 2021
Undergraduate Researcher — *Cambridge, MA*

- Pre-processed a dataset for an image classification task, leveraging satellite observations to produce over 500k light curve graphs
- Researched and actualized a CNN with PyTorch to identify black hole events from pre-processed dataset, resulting in a 50% reduction of the search domain for future research

TECHNICAL SKILLS

Languages: Python (Advanced), Javascript/Typescript (Advanced), SQL (Advanced), Java (Proficient)
Frameworks: Postgres, Apache Spark, PyTorch, Flask, FastAPI, OpenAPI, React, Node.js, Vue, Mocha, Jest, Selenium, Cypress, Pandas
Tools: Git, Linux/UNIX, Docker, MongoDB, Datadog, AWS (EC2), Google Cloud Platform, LaTeX, Figma