

Test Person

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EDUCATION

Massachusetts Institute of Technology

Computer Science

Cambridge, MA

Sep 2021 - Jun 2025

TECHNICAL SKILLS

Programming Languages: Python, C++, C#, Ocaml

Libraries and Tools: PyTorch, Sklearn, Pandas, Numpy, OpenCV, Git, Docker, Azure

ML Architectures: CNN, YOLO, Transformers(BERT, LSTM), RAFT

WORK EXPERIENCE

Software Engineer

Tesla

Jun 2025 - Present

- Designed and implemented backend services for scalable vehicle telemetry processing using Python and C#, handling millions of events per day while ensuring performance and reliability.
- Developed data ingestion pipelines using Azure Event Hubs and Azure Functions to process and analyze real-time sensor data, ensuring scalability and responsiveness for subsequent data utilization.
- Wrote unit and integration tests, enforced code quality through code reviews and CI pipelines, while collaborating with cross-functional teams to deliver scalable solutions.

Software Engineer Intern

Jane Street

Jun 2024 - Sep 2024

- Designed and developed low latency trading infrastructure components using C++ to meet strict performance, correctness, and reliability requirements.
- Developed internal tooling in Python for analyzing trading signals and strategy performance, enhancing the reliability of analysis processes.
- Gained experience with Linux systems, utilizing profiling tools to troubleshoot complex concurrency issues effectively.

Co-Founder

Stealth Startup

Feb 2022 - Nov 2024

- Developed the initial product end-to-end, including designing scalable backend APIs, managing data storage solutions, and integrating ML-powered features to enhance functionality.
- Designed and trained computer vision models using PyTorch for scalable real-time image and video analysis, ensuring optimal performance and integration with existing systems.
- Deployed scalable services utilizing Docker and cloud infrastructure, managing authentication, performance monitoring, and logging to ensure system reliability.

PROJECTS

- **Autonomous Driving Perception System**, Implemented object detection and lane segmentation pipeline using YOLO and CNN based architectures. [GitHub](#)
- **Algorithmic Trading Simulator**, Built a full backtesting engine in Python to simulate trading strategies on historical market data. [Try it!](#)
- **Real Time Video Analytics Platform**, Developed a video processing system using OpenCV and deep learning models for object tracking. [GitHub](#)
- **Distributed ML Training Framework**, Built a framework for running ML experiments with configurable datasets, models, and metrics. [Try it!](#)