

# Test Person

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## EDUCATION

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**Massachusetts Institute of Technology**

Computer Science

Cambridge, MA

Sep 2021 - Jun 2025

## TECHNICAL SKILLS

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**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

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### Software Engineer

Tesla

Jun 2025 - Present

- Designed and implemented backend services for vehicle telemetry processing using Python and C#, handling millions of events per day.
- Built scalable data ingestion pipelines using Azure Event Hubs and Azure Functions to process real-time sensor data in collaboration with cross-functional teams.
- Wrote unit and integration tests, enforced code quality through code reviews, and implemented CI pipelines, ensuring collaboration and communication within the development team.

### Software Engineer Intern

Jane Street

Jun 2024 - Sep 2024

- Developed infrastructure components for low latency trading in C++, adhering to strict performance and correctness requirements, while fostering collaboration in a team environment.
- Developed internal tooling in Python for analyzing trading signals and strategy performance, enhancing application design and supporting software development best practices.
- Gained experience with Linux systems, profiling tools, and debugging complex concurrency issues.

### Co-Founder

Stealth Startup

Feb 2022 - Nov 2024

- Led the development of the initial product end to end, including backend APIs, data storage, and ML powered features, while collaborating with cross-functional teams and ensuring scalable solutions for insurance applications.
- Designed and trained computer vision models using PyTorch for real time image and video analysis.
- Deployed scalable services using Docker and cloud infrastructure, managing authentication, monitoring, and logging to ensure reliable application performance.

## PROJECTS

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- **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!](#)