

KENTARO TANAKA

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WORK EXPERIENCE

FriendliAI

Software Engineer

Seoul, South Korea

August 2025 - October 2025

- Extended a hand-rolled PEG parser used in the model tool-calling pipeline for AI inference.
- Forked and modified an internal Protobuf library to ensure deterministic serialization in production inference workflows.
- Designed and implemented a role-based access control (RBAC) system for FriendliAI's internal back-office platform, enabling secure access to customer accounts, subscriptions, and internal data across engineering, marketing, and sales teams.

Five Rings Capital

Software Engineer

New York, NY

October 2020 - April 2025

- Led the architecture and long-term technical direction for a mission-critical suite of trading, risk, and compliance systems, evolving them from initial design through years of production scaling.
- Served as the "0-to-1" engineer for rapid-response projects; notably designed and deployed a C++ low-latency valuation engine in under three weeks to meet urgent, high-stakes market requirements.
- Partnered directly with quantitative researchers to translate mathematical models into production-ready automated trading algorithms across diverse markets.
- Designed and scaled internal platforms for trade reconciliation and data pipelines, automating back-office workflows and building real-time monitoring and alerting tools.
- Acted as the primary point of contact and domain expert for core systems, mentoring junior engineers and coordinating multi-contributor releases in a high-pressure environment.

Five Rings Capital

Software Engineer Intern

New York, NY

June 2019 - August 2019

- Developed high-performance C++ components for proprietary trading systems

Designlab

Software Engineer Intern

Remote

June 2018 - August 2018

- Built a Django REST API to decouple content delivery from application logic.

MIT HKN Honor Society

Computer Science Peer Tutor

Cambridge, MA

September 2017 - May 2018

- Tutored peers in core computer science courses

MIT Media Lab: Changing Places

Undergraduate Researcher

Cambridge, MA

January 2017

- Implemented Android application that does audio recording, FFT processing, filtering, and automatic data uploads

EDUCATION

Massachusetts Institute of Technology

Bachelor of Science in Computer Science *GPA: 4.9*

Cambridge, MA

September 2016 - January 2020

SKILLS

Languages: C++, Python, Typescript, SQL
Systems / Tools: Linux, git, bash, vim, tmux

PROJECTS

Fluency

- Placed 5th out of 4,000+ teams in Microsoft's U.S. Imagine Cup
- Implemented features such as WebRTC-based video chat and real-time messaging

AWARDS

5th Place US Imagine Cup National Finals

Awarded to Fluency

Microsoft

April 2017