

# KENTARO TANAKA

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## WORK EXPERIENCE

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### **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

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### **Massachusetts Institute of Technology**

Bachelor of Science in Computer Science *GPA: 4.9*

Cambridge, MA

September 2016 - January 2020

## SKILLS

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Languages: C++, Python, Typescript, SQL

Systems / Tools: Linux, git, bash, vim, tmux

## PROJECTS

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### **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

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### **5th Place US Imagine Cup National Finals**

Awarded to Fluency

Microsoft

April 2017