

Thanadol (Pleng) Chomphoochan

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EDUCATION

Massachusetts Institute of Technology

M.Eng. in Electrical Engineering and Computer Science

B.Sc. in Computer Science and Engineering · GPA: 5.0/5.0

Relevant coursework: software construction, advanced algorithms, distributed systems, operating systems, compilers, formal verification, FPGA programming, security, and mathematics (linear algebra and probability).

Cambridge, MA

Expected May 2025

May 2024

WORK EXPERIENCE

Citadel

Incoming software Engineer

- Will be working with Global Quantitative Strategies (GQS).

Chicago, IL

Starting July 2025

Jump Trading

Software Engineer Intern

- Implemented an optimizing compiler for an internal domain-specific language.
- Worked with Jump Core Strategies (JCS).

Chicago, IL

Jun 2024-Aug 2024

Instabase

Software Engineer Intern

- **Job management framework:** Created a framework in Go that utilized Kubernetes and Jenkins to scalably dispatch jobs and monitor complex dependencies related to Instabase's SaaS and on-prem deployment processes.
- **Framework migration:** Ensured a smooth migration from the old framework to the new one across the entire firm through my careful design of the migration process, extensive documentation, and communication with multiple teams. The debuggability and flexibility of the new framework led to a boost in job success rates from 45% to 96%.

Menlo Park, CA

May 2023-Aug 2023

DRW Holdings

Software Developer Intern

- **Integration of data sources:** Improved the team's internal data pipeline to incorporate price information from other sources within the firm in a streamlined manner. Developers and traders were then able to conveniently parse and incorporate the data into their downstream applications.
- **Various Optimizations:** Extensively profiled and analyzed many applications across the pipeline. Eliminated previously recurring disruptions caused by excessive CPU/memory usage, thus avoiding the loss of data. Improved the speed of internal tools such as user-friendly visualization dashboards—up to 20× in one of the tools.

Chicago, IL

Jun 2022–Aug 2022

Frictionless Systems

Software Engineer Intern

- **Signal processing:** Implemented signal processing in Kotlin to analyze electrocardiogram signals from wearable sensors to feed into machine learning pipeline.

Cambridge, MA

Feb 2021–May 2021

RESEARCH AND TEACHING EXPERIENCE

Massachusetts Institute of Technology—Department of EECS

Teaching Assistant

Cambridge, MA

Sep 2021–Now

Massachusetts Institute of Technology—Programming Languages and Verification Group

Undergraduate Researcher

Cambridge, MA

Jan 2023–May 2023

AWARDS AND HONORS

International Olympiad in Informatics — Bronze Medal

Sep 2018

Asia-Pacific Informatics Olympiad— Silver Medal

May 2018

Thailand Olympiad in Informatics — Gold Medal

June 2017

SKILLS

Languages: Python, C, C++, Rust, Go, Javascript, Typescript, Java, Scala, Kotlin, Haskell, C#, SystemVerilog