

Saw S. Lin (張智奇)

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Professional Summary End-to-end technical founder and product-driven builder. I carry projects from algorithms research (LLM inference acceleration; first-author paper DominoTree) through product design, API design, and client delivery, building complete solutions independently — turning frontier AI research into shippable products and business value while bridging algorithms, back-end engineering, and clients.

Education

National Taiwan University

M.S. in Computer Science and Information Engineering

Taipei, Taiwan | Sep. 2024 – Present

As a core member of a research team of Ph.D. and master's students, I am contributing to an effort to develop innovative large language model (LLM) inference-acceleration techniques. Our work explores speculative-decoding improvements, dynamic algorithmic optimization for efficiency, and new systems architectures for next-generation models such as mixture-of-experts (MoE). Through a joint R&D center, the project combines academic innovation with industry resources to create practical, high-impact solutions for real-world AI applications. One outcome is the first-author paper DominoTree (see "Research Publications").

University of Helsinki, Finland

Full Stack Web Development (Open University course)

Remote | Jun. 2023 – Oct. 2023

- Built full-stack web applications with ReactJS and Node.js, integrating GraphQL, TypeScript, React Native, CI/CD, containerization, and Sequelize.
- Completed all 14 credits with a grade of 5/5.

Colgate University

B.A. in Computer Science and Mathematics

Hamilton, NY, United States | Aug. 2013 – May 2017

- Cumulative GPA: 3.64/4.33; President, Upsilon Pi Epsilon Honor Society (2016).
- Research: served as a research assistant, [assisted research](#) on "Automatically Repairing Network Control Planes Using an Abstract Representation" (SOSP '17; paper: dl.acm.org); also co-authored an ISCC 2017 paper (see "Research Publications").

Research Publications

- [DominoTree: Conditional Tree-Structured Drafting with Domino for Speculative Decoding](#) (first author, with advisor Jyh-Shing Roger Jang (張智星); arXiv preprint, 2026; code open-sourced on GitHub) — proposes a training-free, best-first draft-tree algorithm that achieves up to 6.6× speedup over autoregressive decoding on Qwen3-4B, with the highest average acceptance length among all evaluated methods.

- Co-authored “Balancing Overhead–Minimization Objectives in Network Probing–Path Selection” ([ISCC 2017](#)).

Professional Experience

National Institutes of Applied Research

Consultant, Science & Technology Policy Research and Information Center, Information Systems Division

Taipei, Taiwan | Sep. 2025 – Present

Lead development of the AI recommendation system (Seek): building on the internship–stage foundation, solely responsible for recommendation–algorithm design, front–end development, product design, and API design through product–roadmap advising (back end owned by another engineer); built a scholar–recommendation engine on the center’s proprietary database to improve preliminary–reviewer selection efficiency for government research–grant programs; worked closely with the back–end engineer and client, earning strong client recognition.

Led product design and specification for a technology–effect matrix system: an AI–driven patent– and literature–analysis platform; owned product design, scope advising, and API specification, generating technology–effect matrices to identify blue– and red–ocean areas; coordinated between back end and client to deliver key insights for industry and academia and support innovation assessment.

Led front–end development and product design for the TOP Grants review system for discipline conveners: built for an overseas talent–development grant program in the humanities and social sciences, built the front end with Flutter Web, led product design and API design, and integrated the in–house Seek recommendation engine so discipline conveners get intelligent preliminary–reviewer recommendations; redesigned the process into a single one–stop review flow, merged dual–track applications, and removed manual follow–up steps, cutting reviewer–matching turnaround from days to minutes.

National Institutes of Applied Research

Intern, Science & Technology Policy Research and Information Center, Information Systems Division

Taipei, Taiwan | Jul. 2025 – Aug. 2025

Led initial development of an AI recommendation system using the center’s proprietary database to improve government research–grant reviews.

Defined the product roadmap toward a long–term vision of transforming Taiwan’s research ecosystem: matching graduate students with advisors and fostering collaboration between academic experts and industry.

KOBA AI & LINKSS.ai ([KORVVA.com](#))

AI Product Strategy and Development Specialist (part–time, 16 hours/week)

Taipei, Taiwan | Jan. 2025 – Jun. 2025

Market research and fundraising: led market analysis and business–case development for AI virtual–character technology and prepared a US\$6M fundraising plan for the JETRO deep–tech startup ecosystem program.

AI content production: designed and implemented an automated virtual–character content pipeline with HeyGen, VTube Studio, generative AI, and Python automation; produced 6+ video assets and substantially shortened production time.

Digital marketing: applied the “Law of Focus” to Instagram strategy, built a cross–functional RACI matrix, and developed custom web scrapers to streamline data collection and Excel reporting.

Product strategy consulting: evaluated a B2B technology platform, performed competitive intelligence analysis, and drafted strategic frameworks to guide executive validation of business hypotheses.

Cross–functional leadership: worked with product managers, marketing consultants, and engineering teams to connect AI capabilities with commercial goals in health–supplement and semiconduc–

tor verticals.

Spacematter Apps (spacematterapps.com)

Collaborator

Feb. 2024 – Jul. 2024

Led end-to-end development of the ShiShi Timer app, from user interviews and product strategy through co-founder collaboration, design, and delivery.

Led B2B client work, presenting IFC Travels & Tours with three customized proposals and developing an MVP integrating a major Myanmar payment app.

Coordinated with Huawei's China team to assess whether its platform could support IFC's client application.

Codigo – The Mobile App Company (codigo.co)

IT Project Manager

Singapore (remote from Myanmar) | Aug. 2023 – Feb. 2024

Managed six concurrent projects for clients including Isetan Singapore, AIA Myanmar, and Extra Space Asia.

Arbyex (self-funded project)

Product Manager

Myanmar | Oct. 2022 – Feb. 2023

Validated the value proposition of a food-education app to improve the lifestyle of people with diabetes, beginning with nutrition data for 300+ local foods.

Ahtar Oo Co., Ltd. (ahtaroo.com)

Technical Product Manager

Yangon, Myanmar | Mar. 2020 – May 2022

Planned and delivered the product roadmap for Windows and web HR-management platforms. Analyzed business needs and worked with executives, clients, and cross-functional teams to introduce standardized product management and user research, improving usability, competitiveness, and team capability.

Key achievements:

Expanded the customer base to six enterprises and processed data for 2,700+ employees monthly.

Led four product iterations, introduced Agile and standardized processes to raise productivity by 70%, optimized payroll, performance-review, and leave systems to save 133+ staff hours monthly, increased review completion to 94%, and reduced leave waiting time by about 80%.

Ahtar Oo Co., Ltd. (ahtaroo.com)

Project Manager

Yangon, Myanmar | Jul. 2018 – Feb. 2020

Led development of microfinance solutions and government animal-information software, coordinated RFID hardware vendors, and improved product design through prototypes and user feedback.

Key achievements:

Developed and tested a nationwide digital-cattle web prototype that placed in the top two of 16 competitors, testing 144 cattle in three days. Improved microfinance-system stability, accelerated report generation by 70%, and helped recover MMK 162.5 million (about US\$100,000 at Feb. 2020 exchange rates) in bad debt.

SKYBIT.ASIA

Software Development Intern

Singapore (remote from Myanmar) | Mar. 2018 – May 2018

Professional Certificates

- [Stanford University & DeepLearning.AI Machine Learning Specialization](#) — issued Jan. 3, 2025
- [Google Advanced Data Analytics](#) — issued Aug. 12, 2023

- [Google Project Management](#) — issued May 19, 2023
- [Udacity Product Manager Nanodegree](#) — issued Dec. 31, 2022

Core Skills and Generative–AI Applications

Generative AI: AI–assisted development; agentic coding workflow; AI agents and automation; AI content generation; context engineering

Programming Languages: Python, Java, JavaScript, Dart, C#, TypeScript, HTML/CSS, SQL

Frameworks and methods: Agile, Lean Product, Design Thinking; Flutter, Node.js, Git

Tools: Claude Code, Codex, Cline, GitHub Copilot, Figma, Notion, Google Workspace, Visual Studio Code, Jupyter Notebook, Tableau

Languages: English (proficient), Mandarin (fluent), Burmese (native)