

Aaron Yang

Staff AI Engineer at Micron · Architect

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Online version: [Notion resume](#)

SUMMARY

Staff AI Engineer at Micron with 7 years of experience building and running a workflow and change management system used by 3,000+ people every day across 7 regions. Well-versed in .NET Core, Angular, and CI/CD, with hands-on experience moving systems to Kubernetes and Azure. Currently the architect of a 20-person team; enjoys knowledge sharing and training, and cares deeply about code quality and developer experience.

WORK EXPERIENCE

Micron, Taichung, Taiwan

2019-11 – Present

Staff AI Engineer (2026-10 –) · Staff Software Engineer (2025-10 – 2026-10) · Senior Software Engineer (2023-10 – 2025-10) · Software Engineer (2019-11 – 2023-10)

Core system — 3,000+ daily users across 7 regions

- Built and maintained an internal workflow and change management system serving 3,000+ daily active users across 7 regions, integrated with manufacturing systems so changes are validated against business plans, approved, and applied back automatically.
- Improved system performance by nearly 1,000x by fixing weak spots such as database N+1 queries; sped up page loads with pagination and lazy loading.

Team leadership — Architect of a 20-person team

- Serve as the architect of a 20-person team; provide architecture designs, consulting, and tech stack comparisons for internal and external teams.
- Previously led a project with 4 developers: hosted Scrum meetings, code reviews, and pair programming; interviewed users and documented processes in Confluence, Jira, SharePoint, and Teams.

Architecture and cloud — From on-premises to Kubernetes and Azure

- Migrated services from Windows Server IIS to Kubernetes with Jenkins, Octopus, Docker, and Helm, and adopted Azure AD, Key Vault, Service Bus, Blob Storage, Cache for Redis, and Application Insights.
- Built a job queue service and a three-layer cache (HTTP request, in-memory, distributed) using the decorator pattern to control strategy and TTL.
- Improved observability with health checks, Application Insights, and Kubernetes probes, and centralized all logging.

Performance — CPU 100% → under 10%, ETL 7 hours → 1 minute

- Moved 1 TB of base64-encoded files from the database to storage, cutting host CPU from 100% to under 10% and RAM from 64 GB to 8 GB.
- Rewrote ETL jobs, reducing the daily Snowflake upload from 7 hours to 1 minute.

Quality and operations — On-call 60+ hours → under 5 hours a week

- Introduced unit testing (Jest, xUnit), linters, and formatters enforced by git hooks and CI, and built a testing culture in the team.
- Cut on-call effort from 60+ to under 5 hours a week by grouping incidents by cause, prioritizing by time wasted, and fixing root causes.

5xRuby, Taipei, Taiwan — Full Stack Engineer (Contract)

2017-08 – 2017-11

- Shipped new features for dappei.com with two senior engineers and a PM in 3 months, including Instagram and Facebook OAuth login and scheduled posting through their APIs.

SELECTED PROJECTS

- **Danmu Classroom** (2018, rewritten 2026): audience messages from phone or LINE fly across the speaker's screen; Cloudflare Workers, Durable Objects over WebSocket, and an Electron overlay.
- **Bisection Anything** (2026): rank anything by pairwise comparison, with single elimination or a full ranking.
- **Master's thesis: Dcard post analyzer** (2017 – 2019): crawler plus sentiment analysis, BERT, and a mention graph to help experts judge conversation health. [Thesis](#)
- **Chinese Segmentation as Service** (2019): jieba, SnowNLP, and pkuseg Chinese word segmentation served as an HTTP API with Flask.
- **Caten Church website** (2016 – 2019): Rails app for member accounts, event sign-ups, attendance reports, and permission management.

SKILLS

Backend: C#, .NET Core, Entity Framework Core, Ruby on Rails, Python, Flask, Node.js, RESTful APIs, message queues

Frontend: TypeScript, Angular, RxJS, Vue, Bootstrap, Sass, Electron

Testing and quality: xUnit, Moq, AutoFixture, FluentAssertions, Jest, ESLint, Prettier, SonarLint, dotnet format

DevOps and cloud: Jenkins, Octopus, Docker, Helm, Kubernetes, OpenShift, Azure (AKS, Key Vault, Service Bus, Blob Storage, Redis, Application Insights), Cloudflare Workers

Data: MSSQL, PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, Snowflake

EDUCATION

M.S. Information Management, National Sun Yat-sen University
(2017 – 2019), GPA 3.8 / 4.3
Researched conversation health on social networks with text mining and NLP.

B.E. Automatic Control, Feng Chia University (2013 – 2017), GPA
3.6 / 4.0
Completed a second program in Computer Science.

LANGUAGES

Mandarin Chinese: Native

English: Professional working proficiency (TOEIC
750/990)