

Aaron Yang

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SUMMARY

Experienced software engineer currently employed at Micron.

Technical Proficiency:

- Well-versed in .NET Core, Angular, and CI/CD practices.
- proficient in cloud technologies, including containerization with Kubernetes.

Collaboration and Leadership:

- Actively engages in knowledge sharing and training.
- Skilled in client communication, ensuring successful project outcomes.
- Embraces a growth mindset, constantly seeking personal and professional development.

EXPERIENCE

Software Engineer

Micron

November 2019 - Present, Taiwan, Taichung

- Engineered and maintained an internal workflow & change management which serve **3000+ daily active users across 7 regions**.
- **Leading projects with a group of 4 developers**, customer communication, user interview to aware business domain concept, documentation(Confluence/Jira/SharePoint/Teams), host scrum meeting, request infrastructures, code review and pair programming.
- **Provide software architecture designs or consults** or tech stack comparisons for both internal and external teams, for example: design and implemented a job queue service to extend the main system and refactoring network IO heavy API.
- Integrated internal workflow & change management with exists manufacturing systems, gather information in one place, help different user modify data and verify data strict with business plan, request approvals then apply back to manufacturing systems, **saved 3000+ hours per user a year**, speed up manufacturing process iterations.
- **Migrate system infrastructure from on-premise to containerized and cloud**, e.g. migrate host from Windows server IIS and windows service to **Kubernetes** with Jenkins, Octopus, Docker and Helm; adopt **Azure resources**, such as Application Insight, Azure Cache for Redis, Azure AD, Azure Blob, Azure Key Vault, Azure Service Bus, Microsoft Graph API; **Improve observability** by setup health check in code/Azure Application Insight/Kubernetes probes and centralized all data collecting methods(telemetry client/console/logger) into logger.
- Migrate 1TB base64 encoded files from database to storage, reduce each host server **CPU from 100% to less then 10%, RAM from 64 GB to 8 GB**.
- Rewrite ETL jobs, e.g. **reduce daily snowflake upload process from 7 hours to 1 min**.
- Introduced unit test(Jest, XUnit, mock, fixture, coverage) and setup **linter**(eslint/dotnet analyzer/sonarlint) and **formatter**(dotnet format/prettier) for both local(husky githook) and CI stage to **unite teams coding style and improve code quality**.
- Extend in memory cache to 3 cache layers, http request layer, in memory layer, distribute layer, and using decorator pattern to control the cache strategy and TTL, and fill up the missing ttl for the old system.
- **Eliminate the on-call efforts for my team from 60+/week to 5-/week**, let developers can focus on the features not the incidents, collecting incidents and group by reasons, priory by time wasted, trace and find out the root causes, and pay the debts.

EDUCATION

Master of Information Management

National Sun Yat-sen University • Kaohsiung, Taiwan • 2018 • 3.8 GPA

- Studied AI/ML during Information Management studies.
- Acquired knowledge in statistics, linear regression, linear algebra, image processing, natural language processing, and Python.

Bachelor of Engineering in Automatic Control

Feng Chia University • Taichung, Taiwan • 2013 • 3.5 GPA

- Passionate about programming since exploring technologies like PLC, 8051, and Arduino.
- Proficient in web applications using Ruby on Rails and Bootstrap.
- Strong foundation in computer science concepts: data structures, operating systems, algorithms, object orientation, and database management.

SKILLS

Frontend: TypeScript, JavaScript, CSS, Sass, HTML, npm, yarn, publish npm package, Lodash, RxJS, Angular, Vue, Jest, Electron

Backend: .NET Core, C#, Entity Framework Core, Auto Mapper, Fluent Validation, XUnit, Fluent Assertion, Moq, Auto Fixture, Swagger, Rails, Ruby, Flask, Python, Node, RESTful API, Message Queue, Background Job, SQL, NoSQL, DB indexing, DB normalization, ERD, ORM, Pagination, Eager Loading, Avoid N + 1 Query, Db migration, Blob, OAuth, Cache, CORS, CSRF, CDN, Nginx, Load balancer, SSL.

Container: Docker, Docker compose, Podman, Helm, Kubernetes, OpenShift

Cloud: Azure AD, Azure VM, Azure Kubernetes Service, Azure Red Hat OpenShift, Azure Private Link, Azure Key Vault, Azure Application Insight, Azure Service Bus, Azure Blob Storage, Azure Cache for Redis, Microsoft Graph API, Google Domains, Google Cloud Storage, Google App Engine, Cloudflare DNS

Infrastructures: PostgreSQL, MySQL, MSSQL, MongoDB, Redis, RabbitMQ

Coding Skills: Object Oriented Programming, SOLID, SSOT, KISS, Dependency injection, Unit test, TDD, Declarative programming, Redux, One-Way Data Flow, Design Patterns.