

Jonas Chen

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EDUCATION

New York University (NYU)

B.A. in Mathematics and Computer Science; GPA: 3.75 / 4.00

New York, NY

Expected Jun 2027

Coursework: Data Structures & Algorithms, Computer Systems Organization, Software Engineering, Machine Learning, Linear Algebra, Probability, Statistics, Discrete Mathematics

TECHNICAL SKILLS

Programming	TypeScript, JavaScript (ES6+), Python, Java, SQL, HTML/CSS
AI & ML	OpenAI API, tool calling, agent workflows, embeddings, Sentence Transformers, semantic retrieval, recommendation ranking
Backend	Cloudflare Workers, Hono, FastAPI, Flask, Node.js, REST APIs, OAuth2, JWT, RBAC, session management
Cloud & Data	Cloudflare D1, Cloudflare R2, MongoDB Atlas, SQLite, DigitalOcean, Docker, CDN/object storage
Developer Tools	Git, GitHub Actions, CI/CD, Linux, logging, automated testing, deployment automation

WORK EXPERIENCE

AitherPath

Software Engineering Intern

Jersey City, NJ

Jun 2026 - Present

- Architected a production-oriented AI agent platform on Cloudflare Workers and Hono, exposing TypeScript REST APIs for agent sessions, tool execution, and workflow orchestration.
- Designed OpenAI API integration with tool calling abstractions, structured agent workflows, session memory, error handling, and logging to support durable multi-step user interactions.
- Built OAuth2-based Google Workspace integrations across Gmail, Calendar, and Contacts APIs, enabling secure inbox access, event scheduling, and contact retrieval through agent tools.
- Implemented cloud-native API layers for credential handling, asynchronous external API calls, response normalization, and deployment-ready serverless execution.
- Established CI/CD-oriented engineering practices around typed interfaces, environment configuration, integration boundaries, and production deployment on Cloudflare.

KYG Machinery Ltd.

Website Development Intern

Guangzhou, China

May 2025 - Aug 2025

- Built a cloud-native business platform with Astro and Cloudflare Workers, supporting multilingual product catalogs, product showcases, and customer inquiry workflows.
- Designed CMS and internal tooling for product drafting, publishing, categorization, bulk import, image asset management, and administrative review workflows.
- Implemented backend modules using Cloudflare D1 and R2 for product data, object storage, quotation processing, customer inquiries, and CDN-backed media delivery.
- Added authentication and security flows including login, email verification, password reset, CSRF protection, role-aware administration, and audit logging.
- Contributed ERP-oriented backend modules for quotation, pricing, order management, inventory tracking, and operational workflow automation.

PROJECT EXPERIENCE

NearBite - Personalized Restaurant Recommendation Platform

New York, NY

Frontend, Database & Recommendation System Developer

Jan 2026 - May 2026

- Developed an AI recommendation system for restaurant discovery, combining natural language search, structured filters, map exploration, user profiles, favorites, and personalized ranking.
- Implemented semantic retrieval with Sentence Transformers embeddings and cosine similarity, turning free-form user intent into restaurant candidates for downstream ranking.
- Designed a hybrid ranking pipeline that combines semantic relevance, survey preferences, interaction history, cuisine affinity, ratings, and feature-engineered restaurant attributes.
- Built backend-facing data flows with MongoDB Atlas and Streamlit deployment, supporting user modeling, recommendation refreshes, and repeatable search experiments.
- Structured the system for future production hardening, including ranking evaluation hooks, API boundaries, data validation, and deployable recommendation services.

CatCh - Secure Cloud-Native Coding Platform

New York, NY

Full-Stack Developer

Apr 2026 - May 2026

- Architected a full-stack programming education platform with React, Vite, FastAPI, MongoDB, and Docker Compose, separating authentication, grading, game, market, and ranking services.
- Built sandboxed code execution pipelines with container isolation, resource limits, pytest validation, and automated grading workflows for challenge submissions.
- Implemented secure platform access with verification codes, JWT authentication, role-based permissions, and protected API surfaces for students and administrators.
- Developed REST APIs for coding challenges, reward logic, marketplace trading, leaderboards, and teacher-facing management workflows.
- Set up GitHub Actions CI and containerized service orchestration to support repeatable testing, deployment readiness, and scalable backend evolution.

ADDITIONAL INFORMATION

Languages: Mandarin Chinese (Native), English (Fluent), Cantonese (Fluent)

Interests: Skiing, rock climbing, hiking, photography, strength training, meditation