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SUMMARY

GenAl Full-Stack Software Engineer who optimized 140+ APIs (27.7% faster), built WebSocket real-time systems with Redis for frontend-backend integration, scaled systems to 20M+ records with 10M+ async data pipelines, achieved 67% test coverage with CI/CD, and contributed 14+ PRs to LlamaIndex. Expertise in Python, C++, TypeScript. Pursuing M.C.S. at Rice University.

EDUCATION

Rice University - Top 20 U.S. University

Aug. 2025 - Dec. 2026 (Expected)

M.C.S., Computer Science

Houston, TX

Courses: Database Implementation, Web Development, Big Data Tools and ML Models

National Yang Ming Chiao Tung University (NYCU) - Top 3 Taiwan University

Sep. 2020 - Jun. 2024

Hsinchu, Taiwan

Minor: Computer Science (Domain GPA: 4.13/4.30) B.S., Industrial Engineering and Management (GPA: 4.07/4.30)

WORK EXPERIENCE

Back-End Engineer & GenAl Team Lead

Sep. 2024 - Aug. 2025

MaiAgent Co., Ltd. - Award-Winning B2B GenAl Startup

Taipei, Taiwan

- API Optimization Optimized 140+ RESTful APIs through SQL query refactoring, connection pooling (Elasticsearch, Cohere, OpenAI), and Django caching; reduced response time of 13 high-traffic APIs by 27.7% overall and prevented N+1 queries
- Scalable Data Pipeline Architected async data processing pipeline using asyncio, Celery, and batch/generator patterns to handle 10M+ records for multi-level knowledge base indexing, achieving 5x faster parsing speed
- Real-Time Communication Implemented WebSocket-based real-time notification system with Redis pub/sub for file parsing status updates; built event-driven architecture for agent state transitions, pushing canvas rendering triggers to frontend for UI updates
- System Architecture & Refactoring Led incremental refactoring with backward/forward compatibility, scaling from 3M to 20M+ text chunks; designed normalized data schema and implemented Singleton patterns to optimize object creation and memory usage
- CI/CD & Testing Built GitHub Actions CI pipeline with pytest integration and unit testing, achieving 67% code coverage from zero baseline; reduced production hotfixes by 90% initially and 50% long-term; managed database migrations in CD pipeline

PROJECTS

Elderly Care Map Website | Apache, PHP, MySQL, Google Maps API, HTML/CSS (Bootstrap5), JavaScript

Sep. 2023 - Jan. 2024

- Database Design & Integration: Designed normalized database schema with 8 tables handling 2,000+ long-term care institutions; implemented complex joins and constraints for user favorites, institution info, and geolocation data; integrated government open data (CSV) with automated ETL pipeline
- Full-Stack Development: Built interactive map-based search platform with Google Maps API integration featuring radius-based filtering, bed capacity classification (color-coded indicators), and real-time distance calculation; implemented user authentication system with CRUD operations for favorite institutions management

Chat Bar - Real-Time Multiplayer Game Server | C/C++ (Socket Programming, SFML), MySQL, SHA-256

Oct. 2023 - Jan. 2024

- Server-Client Architecture: Designed and implemented real-time multiplayer game server using TCP socket programming with multi-threaded client handling, supporting concurrent connections for chat and gameplay synchronization
- User Management System: Built authentication system with SHA-256 password hashing, MySQL database integration for user data persistence, and implemented ranking/leaderboard features with optimized queries
- Game Engine: Developed client-side GUI and game logic using SFML library with event-driven architecture for character movement, group chatting, and real-time state updates

AWARDS

Presidential Hackathon Winner (2024) - Urban noise detection with LLM-powered structured analysis

23rd Golden Peak Award (2025) - Outstanding Commercial Product, MaiAgent AI Platform

Two-Time Dean's List Recipient - Top 5% Academic Performance, NYCU

Atona Case Competition Finalist (Top 1%) - National enterprise transformation competition

Al Workshop Outstanding Award (Top 3/50) - Multi-Agent RAG tutoring system, NYCU CS

SKILLS

- Languages: Python, C/C++, TypeScript | Frontend: HTML, CSS, JavaScript, React | Backend: Django, FastAPI, Nginx
- APIs: RESTful, WebSocket, Redis Pub/Sub | Databases: PostgreSQL, SQLite, MSSQL, Neo4j, Milvus, Elasticsearch, Redis
- Async: asyncio, Celery | DevOps: GitHub Actions, Docker, git, Shell Script | AWS: EC2, S3, RDS, ElastiCache | Methods: Agile, Scrum