

# YING FANG JAW

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## EDUCATION

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### University of Wisconsin-Madison

*M.S. in Computer Science*

Sep 2023 – Dec 2025

GPA: 3.9

### National Tsing Hua University

*Post-Baccalaureate in Computer Science*

Sep 2020 – Jan 2022

GPA: 3.96

## SKILLS SUMMARY

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**Languages:** Python, Golang, Java, C++, JavaScript, HTML/CSS

**Frameworks:** Django, Spring, React, Node.js, RESTful, gRPC

**Infrastructure:** Docker, Kubernetes, GitHub Actions

**Databases:** PostgreSQL, MySQL, MongoDB

**Data & Streaming:** Kafka, Airflow

**Cloud:** AWS, GCP, Azure

## WORK EXPERIENCE

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### Madisoft LLC – Founder & Software Engineer

May 2026 – Present

*TypeScript, React, Golang, Fiber, WebRTC, Cloudflare Realtime, PostgreSQL*

- Founded Madisoft LLC and shipped BuckyChat, a campus-only random video chat platform for verified UW–Madison students, as the sole engineer from zero to production.
- Architected and built the full stack: React/TypeScript frontend on Vercel and a Go/Fiber WebSocket backend on Railway, with native WebRTC peer connections via Cloudflare TURN relay.
- Enforced @wisc.edu domain-only access via Supabase before-user-created hooks and JWT-validated WebSocket sessions, ensuring zero unauthorized signups at the auth layer.

### IBM – Software Engineer Intern

Jul 2025 – Aug 2025

*C++, Shell, Docker, Kubernetes, Argo CD, Grafana k6, Db2*

- Built a production C++ middleware integrating legacy CORBA APIs with modern deployment infrastructure, reducing validation time by **60%**.
- Migrated legacy C++ services to Kubernetes, introducing Blue-Green deployments to reduce operational overhead by **30%**.
- Developed a distributed load testing tool simulating **1,000+** concurrent users against gRPC services to identify performance bottlenecks.
- Implemented CI/CD and GitOps workflows using Azure DevOps and Argo CD, enabling zero-downtime deployments and reducing release time by **25%**.

### Institute for Information Industry – Software Engineer

Jan 2022 – Aug 2022

*Java, Spring, Hibernate, Spring Data JPA, MySQL*

- Developed an e-commerce backend using Java, Spring Boot, and MySQL, building RESTful APIs for order, inventory, and payment services.
- Optimized database queries and schema design, reducing API latency by **10%**.
- Implemented OAuth2 authentication with Spring Security and Google Identity, enabling secure third-party login and enforcing role-based access control.

## PROJECTS

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### Apache Airflow | Open Source · Python, TypeScript, React

2026

- Contributed to Apache Airflow 3.0, refactoring the React pagination component to fix ellipsis rendering logic and improve navigation for large DAG datasets.

### Scalable Event Networking App | TypeScript, React Native, Python, FastAPI, Supabase

2026

- Built a real-time event discovery platform using React Native and FastAPI, supporting map-based event creation and visualization.
- Improved map interaction performance by implementing coordinate system (CRS) conversions and UI micro-animations, reducing perceived selection latency by **30%**.

### AI-Driven Database Schema Expansion | Python, Generative AI

2025

- Built a retrieval pipeline using GPT-3.5-turbo to expand abbreviated database column names, achieving **76–88% accuracy** across multiple relational datasets.