

# Zhongyu (Kay) Wu

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## SUMMARY

Full-Stack Software Engineer with 4+ years of backend, web, and mobile experience, using .NET 8, Vue 3, React, TypeScript, Flutter, and React Native. Own features end to end, from database schema and API design to web/mobile UI, code review, and production release. Experienced with real-time messaging, secure authentication flows, and AI-assisted engineering tooling.

## EXPERIENCE

### Nexus Point Group (Cascadia Capital Corp) - Alhambra, CA Software Engineer

Apr 2023 - Present

*Engineering team supporting Bacera FinTech brokerage platforms*

- Reached 15,000+ mobile users by developing, launching, and maintaining a customer-facing Flutter app for iOS and Android, contributing to both the Flutter client and backend APIs and shipping ongoing releases, bug fixes, and feature updates.
- Drove 2,000+ additional weekly trades by designing and building a customer rewards platform end to end across backend, web, and mobile, including points, loyalty tiers, product catalog, and order fulfillment.
- Cut 100+ weekly authentication-related support issues by implementing Two-Factor Authentication (2FA) with TOTP authenticator apps across API, web, and mobile, covering enrollment, verification, disablement, and login.
- Saved 20% on IT costs by replacing a third-party email platform with an in-house scheduled bulk email service (C#, Hangfire, AWS SES, S3), supporting multilingual templates, attachments, send-status tracking, and subscription preferences.
- Designing and implementing a real-time customer support chat platform across backend, web, and mobile, defining the WebSocket communication architecture, Redis Pub/Sub message routing, PostgreSQL data models, and end-to-end client workflows.
- Developed and maintained Laravel (PHP) customer-facing websites and REST APIs, including multi-region and marketing-content features; built Artisan commands for scheduled data synchronization and reporting.

### Ni Hao Chinese - Torrance, CA

Aug 2021 - Dec 2022

#### IT Developer

- Contributed to a 20% improvement in teacher performance by building interactive Google Data Studio (now Looker Studio) dashboards on MySQL and BigQuery to track company operations and teacher metrics.
- Built and maintained 4 company websites and internal applications using WordPress, HTML, CSS, and JavaScript, turning business requirements into production features and operational tools.

## PROJECTS

### Agents Office - Multi-Agent Software Engineering Orchestrator

*Node.js, Express, WebSocket, Claude Code, OpenAI Codex*

- Reduced AI workflow token usage by 86% (5.3M to 0.73M tokens) through fresh sessions and compressed handoffs instead of passing the full history as context, and added detailed token-usage monitoring across agents.
- Built a local tool that turns a feature request into a step-by-step task plan, assigns each task to an AI coding agent (Claude Code or OpenAI Codex), and runs independent tasks in parallel across multiple repositories.
- Added guardrails to keep agents on track: each agent only gets the tools its role needs, a human approves the plan before any code changes, and interrupted sessions resume without redoing finished work.

## TECHNICAL SKILLS

**Languages:** C#, TypeScript, JavaScript, PHP, Dart, Python, SQL

**Frontend & Mobile:** Vue 3, React, React Native/Expo, Flutter, Next.js, Electron, HTML/CSS, Tailwind CSS

**Backend:** .NET 8 / ASP.NET Core, Node.js / Express, Laravel, WordPress, REST APIs, WebSockets, Hangfire

**Data:** PostgreSQL, MySQL, Redis, Entity Framework Core

**Cloud & DevOps:** AWS (SES, S3, SQS, CloudWatch), Google Cloud / GCP (BigQuery), Docker, Nginx, Git, GitHub Actions, CI/CD

**AI & Developer Tools:** Claude Code, OpenAI Codex, OpenAI API, multi-agent orchestration, LLM context and token management

## EDUCATION

### California State Polytechnic University, Pomona - Pomona, CA

May 2021

*Bachelor of Science in Computer Science | GPA: 3.73*

### East Los Angeles College

May 2019

*Associate of Science in Mathematics*