Hao Qin

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Brea, CA 92821, USA

Full-Stack Software Engineer (.NET / Azure / React) specializing in high-traffic enterprise systems and AI automation. Proven experience managing full software lifecycles for platforms serving 3M+ users, optimizing SQL databases, and integrating modern AI/LLM pipelines to eliminate manual workflows and improve operational efficiency.

EDUCATION

Master of Science in Engineering in Computer Graphics (May 2023, University of Pennsylvania, GPA: 3.6)
Bachelor of Science in Computer Science (May 2021, Pennsylvania State University, GPA: 3.9, honor)
Bachelor of Science in Applied Mathematics (May 2021, Pennsylvania State University, GPA: 3.9, honor)

EXPERIENCE

Software Developer II (County of Orange)   **July 2023 - Present**
- Built and maintained county-wide .NET & React applications supporting more than 3 million users and high-volume transactional workflows, improving processing reliability and reducing manual handling time by 20+ hours weekly.
- Built AI-powered document processing pipelines using Azure AI and OCR, enabling automated text extraction and reducing manual document review effort by 90%.
- Design, deploy, and maintain complex data visualization solutions using PowerBI, SSRS and Crystal Reports; authored optimized SQL stored procedures to provide stakeholders with real-time visibility into mission-critical metrics and compliance auditing.
- Served as technical owner across design, development, testing, and deployment in hybrid on-prem + Azure environments.
- Acted as backup team lead, coordinating priorities, representing the team in supervisor-level meetings, and aligning engineering work with business stakeholders.
- Maintained and modernized legacy systems while providing production support for compliance-sensitive applications.

Software Frontend Developer Intern (PsySpace)   **May 2021 – Aug 2021**
- Built cross-platform mobile interfaces using Flutter and Dart, translating complex UX designs into production-ready components.
- Integrated NLP-based sentiment analysis features to evaluate user text input.
- Worked with Firebase APIs to optimize cloud data access and reduce local storage usage by 30%.

PROJECTS / OTHER EXPERIENCE

Dinnerly Menu (React · TypeScript · Node.js · SQLite · Docker) (https://dinnerly.menu/info)   **Jan 2026 – Mar 2026**
- Built a full-stack meal planning app with React 19, TypeScript, and Express across 6 normalized SQLite tables, containerized with Docker Compose for zero-config deployment
- Implemented 2 authentication methods (Google OAuth + JWT email/password), image uploads with MIME validation, and cursor-based infinite scroll serving paginated community recipe feeds
- Delivered bilingual (English/Chinese) UI with responsive layouts, household invite system, and automated email meal notifications — all across a fully typed client-server codebase

AI-driven Automated Job Sourcing Agent (Python · BeautifulSoup · AI/LLMs · SMTP Automation)   **Jan 2026 – Feb 2026**
- Developed an automated daily Python script to scrape and parse 50+ recent LinkedIn job postings using BeautifulSoup.
- Integrated an LLM to cross-reference scraped job descriptions against a parsed PDF resume, intelligently ranking the top 5 best-fit opportunities.
- Automated the execution and delivery of curated job matches via Cron and SMTP email, saving 80% of daily job search time and ensuring high-relevance applications.

Peer-reviewed papers on Domain Specific LLM Papers   **Jan 2024 – Jan 2026**
- Authored and co-authored peer-reviewed papers on Large Language Models applied to specific sub-domains.
- Evaluated cost reduction, productivity gains, and fraud-detection benefits of internal LLM deployments.

Project Manager/TA for Web Application Course(Javascript, MongoDB, Agile)   **Jan 2023 – May 2023**
- Led groups using Agile & Scrum Methodology for web app projects. Assisted in planning, tracking project status, and ensuring deliverables were met weeks ahead of the deadline.

ENGINEERING SKILLS

- Languages: C#, Python, JavaScript, TypeScript, CSS, SQL, Dart; Frameworks: .NET, Entity Framework, React, Node.js, Express
- Cloud & Databases: Azure, SQL Server, MongoDB, SQLite, Firebase, Docker, REST APIs;
- AI & Modern Tooling: Azure AI, OCR, RAG, LLMs, OpenClaw, Git, Agile/Scrum, Visual Studio, VS Code