

Jialin Yang

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PROFESSIONAL SUMMARY

Software Engineer with 6+ years of experience building and operating production web and mobile applications. Currently pursuing an M.S. in Artificial Intelligence and developing focus in applied AI and data-driven backend systems through graduate study.

CORE TECHNICAL SKILLS

Languages: Python, TypeScript, SQL

Frontend: React, Next.js, React Native, Tailwind CSS

Backend & API: FastAPI, Node.js, Express, PostgreSQL, Prisma, SQLAlchemy, Tortoise ORM

Systems & Development: Docker, GCP, Render, Vercel, REST APIs

PROFESSIONAL EXPERIENCE

Nuve Platform

Chicago, IL

Frontend Development Lead

Jul 2021 – Dec 2024

- Designed and implemented backend services using FastAPI, PostgreSQL, and Tortoise ORM; collaborated on API routes design and managed database migrations.
- Automated infrastructure workflows using GCP APIs to streamline instance provisioning.
- Led frontend development of the company's SaaS platform using Next.js, TypeScript, and Tailwind CSS, delivering production features to 7 enterprise clients.
- Improved application performance by ~35% through strategic state management with Zustand, reducing unnecessary re-renders.

10xCoding

Chicago, IL

Application Developer

Feb 2019 – Jun 2021

- Built and optimized CRUD workflows for sales documents, integrating custom search, email functionalities, and credit card processing, enhancing business efficiency.
- Optimized OData data transfers from SAP ECC systems, collaborating with backend teams to significantly enhance API response times and reduce latency by 50%.
- Architected and independently built a comprehensive internal time-tracking system (PTO, sick leave, approval workflows, expense reimbursement with image uploads) leveraging SAP HANA and SAPUI5.

Application Developer Intern

Jun 2018 – Dec 2018

- Developed a transaction code lookup tool as a Fiori application on SAP Cloud Platform, reducing transaction search time from 10 seconds to 3 seconds.

PROJECTS

Knowli

Founder & Engineer

2025 – Present

- Built and launched a cross-platform mobile learning app delivering bite-sized AI-generated content.
- Implemented in-app purchases, ads, and backend services supporting real users in production.

Minibunn Planner

Founder & Engineer

July 2025 – Dec 2025 (Discontinued)

- Built a full-stack productivity SaaS (Next.js, FastAPI, PostgreSQL) with authentication and subscription enforcement.
- Integrated Stripe subscriptions and led a clean product shutdown by disabling billing, shutting down services, and archiving documentation.

EDUCATION

University of Pennsylvania

M.S. in Artificial Intelligence

Jan 2026 – Expected Dec 2027

Illinois Institute of Technology

M.S. in Information Technology & Management (Software Development)

Jan 2018 – Dec 2018

University of Illinois at Urbana Champaign

B.S. in Mathematics & Computer Science

Aug 2013 – May 2017