

JIAJUN (NICK) HUO

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EDUCATION

University of Illinois Urbana Champaign	Aug 2024 – May 2026
<i>Master of Science in Information Science (STEM)</i>	<i>Urbana, IL</i>
GPA 3.88/4.0 · Distributed System & Database Systems & Applied Machine Learning · U.S. News #1 Information Systems	
Shenzhen University	Sep 2019 – Jun 2023
<i>Bachelor of Science in Mathematics</i>	<i>Shenzhen</i>
GPA 3.79/4.50 (Top 10 %) · 2× merit scholarships · 4 national awards in ML modeling (supply-chain, finance, computer-vision)	

WORK EXPERIENCE

Donut Labs	Jun 2025 – Aug 2025
<i>Software Engineer Intern – 1st AI Agentic Crypto Browser (Sequoia-backed)</i>	<i>Remote · NYC HQ</i>
<ul style="list-style-type: none">Orchestrated an autonomous crypto agent integrating 46 actions across 16 providers, boosting task completion rate by 22%Mitigated tool-use hallucination risks by implementing constrained decoding, reducing invalid tool-call errors by 85%Engineered a context reuse strategy with Redis caching for model intermediate states, cutting GPU costs by \$2K/monthReplaced a costly GPU-based model with RAG pipeline for 50K daily inputs, reducing daily inference cost by 92.5%Architected and scaled 18 FastAPI microservices, handling at a P95 latency of 220ms to support agent’s reasoning core	
Sonic SVM	Mar 2023 – Jul 2024
<i>Software Engineer, Data Solution – Bitkraft-backed SaaS for game studios</i>	<i>Shenzhen</i>
<ul style="list-style-type: none">Led the development of data governance system, drove 3 C-level strategic decisions on product roadmap, report to CPOScaled data platform 2× by integrating new sources while maintaining less than 1hr SLA through incremental processingAutomated PostgreSQL to BigQuery ETL workflows, cutting data processing time 43% and enabling real-time analyticsCreated Prometheus + Grafana dashboards tracking KPIs that influenced product roadmap and secured 10+ partnerships	
Tencent	Nov 2020 - May 2021
<i>Technical Product Manager Intern – The largest WeChat ecosystem platform for universities</i>	<i>Shenzhen</i>
<ul style="list-style-type: none">Drove the full SDLC for campus app, mitigating risks and unblocking dependencies to launch from scratch in 12 weeksTranslated product requirements into technical specifications for a real-time notification system serving 50k+ studentsLeveraged user engagement metrics from AB tests to guide feature priorities, boosting student engagement by 22%	

PROJECTS

ReplicaGenie – Real-time, cost-efficient RAG platform for personalized LLMs	
<ul style="list-style-type: none">Architected 4-service LLM platform; modular microservices allow independent scaling, isolated failures & fast rolloutsDelivered 4-bit LoRA fine-tuning on SageMaker, trimming GPU training cost 77% and guaranteeing reproducibilityBuilt MongoDB to RabbitMQ CDC stream pushing changes to feature store in 1 s, enabling real-time personalizationAutomated scraping for 4 data sources via Selenium on AWS Lambda, parsing and persisting structured data in MongoDB	
BiteMatch – Smart recipe recommender, ranked top-10% in class	GitHub · Demo
<ul style="list-style-type: none">Owned the backend development, creating a RESTful API with 12+ endpoints for user auth, CRUD, and video searchReduced YouTube API calls by caching videos in Redis and using a quota-aware fetch logic to avoid exceeding limitsWorked with 4-member Agile squad, grooming backlog and delivering on 2-week sprints with 100% sprint goal hit rate	
Claude Code Extension for Raycast	GitHub
<ul style="list-style-type: none">Built TypeScript & React Raycast extension (5 modules) transforming Claude CLI into a GUI, accelerating dev workflowsImplemented JSONL session search with real-time filters, plus memory limits and timeout guards for reliable performance	

SKILLS

Languages	Python, TypeScript/JavaScript, Go, SQL, Java, Scala, HTML, CSS, Bash/Shell
Technologies	Backend: SpringBoot, Django, Node.js Frontend: React, Next.js Data: PostgreSQL, MongoDB, Redis
Cloud/DevOps	AWS (EC2, S3, Lambda, SageMaker), Linux, Docker, Kubernetes, Helm, Terraform, Kafka, Prometheus