

Kevin Pei

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EDUCATION

New York University

B.S. in Computer Science, Data Science Minor | GPA: 3.83/4.0

New York, NY

May 2028

EXPERIENCE

Software Engineer Intern

Korr Insurtech

May 2026 – Present

New York City

- Reduced core document workflow load time by 65% by adding parallel server-side queries and ElastiCache
- Consolidated 60+ HTTP Lambda functions into a single Express Lambda behind API Gateway, reducing cold-start surfaces from 60 to 1, provisioned memory by 93%, and monthly infrastructure cost by 29%
- Migrated 100,000+ insurance policies from legacy administration platform, developing reconciliation logic to achieve 99.9% field-level accuracy against source.
- Delivered 5 insurance-operation workflows end to end across REST APIs, OpenSearch

Server Development Lead

NYU High Speed Research Lab

Dec. 2025 – Present

New York City

- Extend Corelink JS/Python open source libraries, a data-agnostic transport framework for real-time applications
- Reduced streaming jitter by 20% and added support for 4+ protocols, enabling browser-native streaming
- Built a credential-provisioning REST API with TTL lease and cleanup, replacing manual credential workflows

Software Engineer Intern

INF.ai

Jun. 2025 – Aug. 2025

Shanghai, China

- Scaled a securities-exam prep platform to support 500+ concurrent users by optimizing query and request handling
- Implemented role-based access across test modules, admin dashboards, and performance analytics for instructors
- Built timed-exam state management with Valtio, enforcing exam progress and sequential navigation

PROJECTS

PersonaLab (1st at NYU Buildathon) | *TypeScript, Next.js, BullMQ, PostgreSQL, Docker*

Feb. 2026

- Built an automated UX-testing platform that deploys browser agents to simulate diverse user personas across product workflows
- Developed an asynchronous BullMQ + Redis pipeline supporting 12+ concurrent browser simulation
- Engineered agentic loop with retry logic, state recovery, and stall detection to ensure reliable agent behavior across multi-step e-commerce flows and browser tasks.

AgentOS (1st at Claude Hackathon Columbia) | *Python, FastAPI, Docker, Next.js, Supabase, OAuth*

Apr. 2026

- Built a Fiverr-style platform for configuring and deploying specialized OpenClaw agents
- Developed a FastAPI and Docker orchestration layer that provisions isolated, role-configured agents with persistent memory and scoped OAuth integrations
- Designed a private Docker bridge network for task dispatch between platform and worker containers

Compco (Co-founder) | *TypeScript, React, Node.js, Figma, AliCloud*

Apr. 2023 – Aug. 2024

- Launched a Looking-For-Group platform for community events across Shanghai, 200+ monthly active
- Built and deployed backend services, authentication, and account management on Alibaba Cloud

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, SQL

Frameworks: React, React Native, Next.js, Node.js, FastAPI

Cloud & Infra: AWS, GCP, DynamoDB, PostgreSQL, S3, SQS, Redis, OpenSearch, ElastiCache, Docker

Developer Tools: Git, Claude Code, Cursor, Supabase, Figma

Work Authorization: United States - No sponsorship required