

Jovy Zhou

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EDUCATION

Northwestern University

Evanston, IL

B.A./M.S. in Computer Science

June 2026

GPA: 3.92/4.00 | Dean's List

Relevant Coursework: Data Structures & Algorithms, Fullstack Development, Software Design, Scalable Software Architecture, Software Quality Engineering, Agile Software Development, Computer Networking, Operating Systems

TECHNICAL SKILLS

Programming Languages: TypeScript/JavaScript, Python, Java, C/C++, Ruby, SQL

Full-Stack: React, Next.js, Node.js, Flask, Rails, GraphQL, REST, Tailwind, Springboot, Django, Redis, gRPC

Data & Platform: PostgreSQL, MongoDB, GitHub Actions, Feature Flags, Firebase, AWS (RDS, S3), Docker

Dev & AI Tooling: Claude Code, Agent Skills, GitHub Copilot, Jest, Vitest, ESLint, Sentry, Datadog

EXPERIENCE

Software Engineer Intern

March 2026 - Present

Petra Labs

Remote

- Architected an end-to-end full-stack application to track and evaluate enterprise brand visibility across LLMs
- Built fault-tolerant data pipelines to reliably parse unstructured LLM responses into structured analytics
- Championed an AI-native engineering workflow using Claude Code, accelerating the delivery of complex data pipelines and frontend interfaces through rapid prototyping

Software Engineer Intern

Jun – Sep 2025

GitHub

San Francisco, CA

- Replaced an 8-year legacy sticky-header library on high-traffic Rails pages (20+ surfaces; 50M+ visits/day) with native CSS position: sticky + JS utilities
- Drove staged feature-flag rollout across 10+ partner teams; instrumented Sentry/Datadog dashboards for errors, achieving zero regressions and reducing related bug reports by 60%
- Built Copilot Agent-driven Jest→Vitest migration pipeline (API detection, prompt transform, diff validation) cutting manual effort by 80% (10m →2m/file) with 72% clean pass rate
- Produced onboarding docs enabling 500+ engineers to self-serve; pilot migrated 10 packages / 50+ test files with zero production regressions

Software Engineer/Undergraduate Researcher

Sep 2024 – Present

MU Collective: Ripplet Development Team — Advised by Prof. Matthew Kay

Evanston, IL

- Built AI exam authoring platform (Next.js, PostgreSQL) cutting draft time 45m → 15m via LLM prompt templating + refinement tools
- Optimized LLM usage via prompt caching and batched generation, stabilizing cost as usage expanded
- Ran 30+ user interviews; prioritized weekly releases achieving 80% user retention (rubric editor, tagging)

PROJECTS

Splitzy | *Next.js, Spring Boot, WebSocket, gRPC, Redis, Claude API*

February 2026 - Present

- Engineered a real-time bill-splitting web app (Next.js, Spring Boot), utilizing WebSockets to instantly synchronize item claims, edits, and split calculations across concurrent users to prevent data races
- Architected an asynchronous task queue using Redis to handle concurrent receipt uploads, decoupling processing from the main application thread via dedicated background workers
- Designed a standalone gRPC microservice integrated with the Claude API to ingest receipt images and reliably extract itemized prices, taxes, and tips into structured data

Purple Hours | *React, Firebase, Bootstrap*

Sep 2024 – Present

- Built and scaled an office hour queue platform for 500+ CS students with reliable real-time updates
- Added intelligent grouping of similar questions to reduce duplicate handling and shorten wait times by 25%.