

Ephron Yuxin Wu

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EDUCATION

- **Carnegie Mellon University** Mountain View, CA
Master of Science in Software Engineering Aug 2025 – Dec 2026
 - **Northwestern University** Evanston, IL
Master of Engineering Management; GPA: 3.89 Sep 2023 – Dec 2024
 - **Worcester Polytechnic Institute** Worcester, MA
Bachelor of Science in Computer Science; GPA: 3.81 Aug 2016 – Dec 2020
- Relevant Coursework: Software Design and Architecture, Cloud Infrastructure and Services, Software Engineering, Browser Security, Deep Learning, Conversational AI*

EXPERIENCE

- **Google** San Bruno, CA
Software Engineer Intern May 2026 - Aug 2026
 - Architected automated release infrastructure integrated into production CI/CD pipelines and distributed SQL telemetry databases, orchestrating release candidate stability tracking and backfilling 2 years of candidate release history for Android YouTube TV.
 - Engineered a Gemini-powered (AI) crash stability copilot to correlate YouTube TV's crashes stack traces with Git commit diffs, pinpointing culprit authors and auto-assigning issue tracking tickets to reduce developer crash triage time by **~98%** from **~2 hours** down to **~2 minutes**.
 - Automated YouTube TV release tracking and launch report generation, saving **~2 hours** weekly by eliminating manual spreadsheet updates and report creation across candidate cuts, by engineering a Python CI/CD release pipeline and dashboard.
- **Meta** Menlo Park, CA
Software Engineer Feb 2021 - Mar 2022
 - Developed and shipped the **Facebook Groups Featured Section** using **Comet**, PHP backend services, GraphQL APIs, and Relay data-fetching, improving content engagement across a **1.8B user base**.
 - Optimized platform UX through **code splitting**, **GraphQL query optimization**, and **GPU-accelerated animations**, reducing user interaction latency by **26%** and improving page load time by **17%**.
 - Ensured **99.9% platform uptime** through on-call rotations, performance monitoring, and incident response, resolving production issues with zero escalations.
- **State Grid Corporation of China** Beijing, China
Software Engineer Feb 2025 - Jul 2025
 - Designed and implemented the backend architecture for Tongxin Space, a real-time chat application, using **Node.js**, **Express.js**, **MongoDB**, **Socket.io**, and JWT-based authentication, supporting over **12K internal users**.
 - Optimized real-time messaging performance by refactoring **WebSocket event handling** and introducing **Redis-based caching** and **rate limiting**, reducing message latency by **27%**.
 - Containerized backend services with **Docker** and implemented CI/CD pipelines via **GitHub Actions**, improving deployment reliability and maintainability; strengthened system reliability with a comprehensive **Jest + Supertest** test suite.
- **State Grid Corporation of China** Beijing, China
Software Engineer Apr 2022 - Aug 2023
 - Developed and scaled **Dianwang Mall**, an internal e-commerce platform used by **22K+ employees**, using the **MERN** stack, leading to a **31% improvement** in financial processing efficiency.
 - Refactored legacy monolithic components into modular services, reducing technical debt, improving maintainability, and conducting **270+ code reviews** while **mentoring 2 junior engineers**.
 - Enhanced system reliability through **structured logging**, **API performance profiling**, and **database query optimization**, reducing peak-load latency by **29%**.
- **Amazon** Seattle, WA
Software Engineer Intern May 2020 - Aug 2020

- Improved delivery workflow reliability by increasing automated test coverage by **23%** and implementing structured logging in Java services supporting high-volume package processing.
- Built dashboards and log-aggregation utilities enabling ops teams to monitor latency, throughput, and error rates across distributed systems, improving service observability and debugging efficiency.

• Meta

Menlo Park, CA

Software Engineer Intern

Jan 2020 - May 2020

- Developed a data pipeline and conducted **A/B testing** to optimize Facebook Marketplace's delivery ranking flow using **Python**, processing **8M+ delivery and listing records** to improve conversion rates across key Marketplace verticals.
- Implemented backend features using **PHP** and internal APIs, enhancing delivery-time predictions and Marketplace buyer experience while improving observability with integrated logging/monitoring hooks.

PROJECTS

• HiChef

Evanston, IL

AI Agent for Cooking

Apr 2024 - Jun 2024

- Developed an AI-powered cooking assistant using the **Gemini API**, enabling step-by-step recipe guidance, ingredient reasoning, and contextual Q&A; implemented a custom **RAG pipeline** with structured memory.
- Built a **full-stack web application** (React, Node.js, Vite) and deployed it on **Google Cloud** using Cloud Run and Firestore.

• EMU

Worcester, MA

Depression Detector Application

Aug 2018 - Mar 2019

- Built a multimodal **Python data-processing pipeline** to clean, segment, and synchronize SMS text, voice recordings, and GPS mobility logs for downstream feature extraction and ML training.
- Engineered an ML feature pipeline extracting **1,881+ linguistic, acoustic, and mobility features**, and trained ML models (RF, SVM, XGBoost, Neural Networks) achieving a **0.81 F1-score** on ~1,900 samples.

SKILLS & CERTIFICATIONS

Programming Languages: Java, Python, JavaScript/TypeScript, PHP, C++, R, F#

Backend: Node.js, Express.js, GraphQL, REST APIs, Socket.io, Redis

Frontend: React, Next.js, Relay, Comet, Vite

AI/ML: PyTorch, TensorFlow, RAG Pipelines, OpenAI/Gemini APIs, Model Fine-tuning, Prompt Engineering

Cloud & DevOps: AWS, Google Cloud Platform, Docker, Kubernetes, GitHub Actions (CI/CD)

Databases: MySQL, MongoDB

Tools & Testing: Git, JUnit, Jest, Supertest

Certifications: AWS Certified Developer Associate, Google Project Management