

DAVID WU

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PROFESSIONAL SUMMARY

Senior Software Engineer with 10+ years of experience building backend systems, internal platforms, and AI-assisted workflow automation. Built production AI systems: an LLM-powered categorization pipeline that reduced manual review volume by 40% and an internal MCP-based assistant for content generation and analysis. Modernized legacy platforms by migrating monolithic applications to Kubernetes microservices and scaling core systems from 98% to 99.8% uptime. Technical lead who mentored engineers and owned projects from design to production.

Core Competencies: Backend Engineering · Distributed Systems · Microservices Architecture · Kubernetes & Container Orchestration · Cloud Infrastructure (GCP) · RESTful API Design · CI/CD · Workflow Automation · Production LLM/GenAI Systems · System Scalability & Reliability

PROFESSIONAL EXPERIENCE

Taboola – New York, NY

Senior Software Developer

Nov 2014 – Apr 2026

Feb 2023 – Apr 2026

- Led development of LLM-powered categorization system within account review pipeline, reducing manual review volume by 40% while maintaining high accuracy through human-in-the-loop validation
- Designed and deployed internal LLM-powered AI assistant (pilot with ~20 users) using Model Context Protocol (MCP), enabling content generation and real-time analytical workflows with a unified interface
- Architected migration of monolithic systems into Kubernetes-based microservices, improving scalability, deployment velocity, and service isolation
- Owned 5+ production content-review applications used daily by ~100 users, with end-to-end responsibility for system reliability, feature delivery, and incident resolution

Internal Applications Technical Lead

Feb 2020 – Jan 2023

- Re-architected core internal platform from single-server to horizontally scalable distributed system, leveraging Redis for shared session state and improving uptime from 98% to 99.8%
- Led large-scale framework migration (Grails 2 → 3) while increasing automated test coverage from ~20% to ~80%, significantly improving release stability
- Managed and mentored a team of 2 engineers, introducing agile processes (sprint planning, standups, and structured code reviews) and accelerating team delivery and ownership
- Developed automated presentation-generation system integrating data warehouse analytics, reducing account-manager preparation time by ~50%

Internal Applications Developer

Apr 2017 – Feb 2020

- Built self-service internal tools for account management and support teams, reducing technical-support escalations by ~70%
- Integrated Salesforce and JIRA APIs into internal platforms, enabling real-time workflows and reducing campaign approval timelines from ~2 days to same-day turnaround
- Developed Chrome extensions for in-browser ad placement editing, eliminating manual design workflows and improving operational efficiency

Earlier roles at Taboola

Technical Support Engineer

Jan 2016 – Mar 2017

L1 Professional Services Support

Nov 2014 – Jan 2016

LANGUAGES & TECHNOLOGIES

Languages: Java, Python, JavaScript, Groovy **Frameworks:** Grails, FastAPI **Platform:** Kubernetes, Docker, Helm, Jenkins, GCP **Data & Messaging:** MySQL, Vertica, Redis, RabbitMQ **Observability:** Prometheus, Grafana **AI & Integrations:** OpenAI API, MCP, Salesforce, JIRA APIs **Testing:** Spock, JUnit, Geb, Selenium **Web:** HTML, CSS, jQuery, React

EDUCATION

CUNY Brooklyn College – Brooklyn, NY

Bachelor of Science in Computer Science 2016