

Neha Malepati

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WORK EXPERIENCE

AI/ML Software Engineer & Developer Advocate , Red Hat AI Innovation Team	Jun 2026 – Present
Freelance Product Owner & Developer , Boston Body Pilates Work with studio owners to develop agentic AI products that automate administrative workflows, client outreach, and payroll and payment systems, reducing the toil and overhead for instructors, front desk staff, and clients	Mar 2026 – Present Boston, MA
Product-Oriented Software Engineer , Google - Led end-to-end development of 10+ product features within Live Video Infrastructure, improving real-time video transcoding systems used globally and partnered with cross-functional stakeholders (OTT, SRE, Ads) - Conducted user discovery for internal and external tools (LMS, Infra, OTT), translating user needs into business requirements and scalable product solutions, using TTD and real-time analysis to present findings to leadership - Demonstrated product lifecycle mastery: scoped ambiguous problems, defined product requirements, collaborated with PMs and SWEs to oversee development, testing, and launch, and created documentation - Owned AI product integration, conceptualized data-driven solutions and evaluated trade-offs for performance - Organized 10+ hybrid campus events, showcasing product thinking in user engagement and experience design	Aug 2024 – Feb 2026 Cambridge, MA
Software Engineering Intern , Google - Implement full-stack features through YouTube Living Room product modernization for better user experience - Collaborated with designers and engineers to improve usability and system performance, demonstrated strong product intuition through experimentation, and iterated features based on feedback and launch data	May 2023 – Aug 2023 San Bruno, CA
STEP Intern , Google Redesigned Google Shopping brand navigation, improving experience for non-technical users, translating user needs into technical requirements and balancing detail-level improvements with overall product impact	May 2022 – Aug 2022 New York, NY

SKILLS

- Methodologies / Tools**: A/B Testing, Agile/SCRUM Methodology, Git, Figma, Tableau, Salesforce
- Technical Skills / Languages**: AWS, APIs, RPCs, C++, Python, PySpark, SQL, JavaScript, Java, TypeScript, HTML/CSS
- Artificial Intelligence**: GitHub Copilot, Claude API, Gemini Canvas, Agentic AI Scripting, Prompt Engineering, Machine Learning, Orchestration

PROJECTS

Studio Management , Skills: JavaScript, Node.js, SQL, Agile Collaborate with studio owners to understand instructor and customer needs to create AI agent scripts to improve client experience and retention, address bottlenecks in outreach, and modernize studio workflow	Feb 2026 – Present
Live Stream Forking (YouTube TV & Primetime Channels) , Skills: C++, SQL, Agile - Defined and delivered scalable feature to support shared livestreams across YouTube's different platforms - Collaborated with OTT and Infra to reduce system load (decreased RPC calls from 100% → 0%), improving performance and reliability and conserving hardware resources, and launched project with 0% error rate	Jan 2026 – Feb 2026
Broadcast Tooling for Live Events (NFL Sunday Ticket, Coachella) , Skills: C++, Python, Agile - Built internal product for managing large-scale OTT and UGC live broadcasts with zero-risk emergency controls - Collaborated with SREs and product stakeholders to develop and implement rollout strategy and reliability	Oct 2025 – Feb 2026
Real-Time Streaming UX Improvements (LateNite Config API) , Skills: C++, SQL, Python, Agile - Identified real-time streaming issues as user pain point and designed and developed API to improve creator experience by eliminating formatting issues and achieved 100% issue reduction, ensuring user satisfaction - Improved system efficiency by eliminating redundant RPC calls (66 QPS reduction) with 0% error launch	Oct 2025 – Nov 2026
Cost Optimization Model (Shadow Falkors) , Skills: C++, SQL, Python, Agile Ideated and developed ML-based resource allocation product to optimize hardware performance and achieved 10% cost reduction and 25% utilization improvement, immediately improving infrastructure efficiency	Aug 2024 – Jun 2025

EDUCATION

Cornell University , Master of Engineering, Computer Science Honors: Magna Cum Laude (GPA: 3.89) Coursework: Artificial Intelligence, Data Mining & ML, Information Networks, Engineering Entrepreneurship Awards: Engineering Dean's List '23-24, Society of Women Engineers WE23 Conference Scholarship '23	Aug 2023 – May 2024 Ithaca, NY
Cornell University , Bachelor of Science, Computer Science Honors: Magna Cum Laude (GPA: 3.91) Coursework: Algorithms, Operating Systems, Databases, AI, Computer Vision, Object Oriented Programming Awards: Tau Beta Pi Engineering Honor Society '23, Sphinx Head Senior Honor Society '23, Grace Hopper Conference Scholarship Recipient '21-'22, Engineering Dean's List '20-'23, Freshman of the Year '21	Aug 2020 – Dec 2023 Ithaca, NY

LEADERSHIP EXPERIENCE

Women in Computing at Cornell Project Manager: Organized 10+ large-scale hybrid campus events (200+ attendees and \$10K budget), treating events as user-centered products to showcase product thinking in user engagement and experience design Career Development Co-Director: Designed and launched workshops for product management, design, and engineering and built structured programs to improve student journeys, outcomes, and engagement	Jan 2022 – May 2024 Ithaca, NY
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