

Jennifer Nadolski

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Professional Summary

AI-focused **Systems & Software Engineer** with 3+ years of experience developing reliable, large-scale systems and integrating LLM-based solutions into production environments. Skilled in C++ and systems design, with hands-on experience using Python, cloud platforms, and Gemini API integrations to prototype and deploy AI-powered applications. Passionate about building intelligent, high-quality software that bridges cutting-edge AI innovation with production-grade reliability.

Professional Experience

Software Engineer I

May 2020 - Mar. 2024

Microsoft Corporation • Redmond, WA

- Led end-to-end feature development for a high-profile Windows 11 Taskbar component, leveraging C++ and Windows APIs to deliver a critical update with **99.9%+ reliability** to over **one billion** users.
- Contributed to system integration for the **Windows Copilot** experience, collaborating cross-functionally to define requirements and ensure seamless OS-level performance.
- Improved performance and maintainability of legacy codebases through deep debugging, systems analysis, and design reviews, enhancing large-scale reliability.

Systems Engineering Intern

May 2019 - Aug. 2019

General Dynamics Mission Systems • Scottsdale, AZ

- Authored a trade study for a US Navy satellite ground station, defining hardware replacement strategies and presenting recommendations to engineering and government stakeholders.

Projects

LLM-Driven File Automation Agent

- Built a cross-platform automation agent integrating the Gemini API and custom prompt engineering to intelligently organize and label files using Python/PyQt6.
- Designed a CI/CD pipeline in GitHub Actions for reliable, multi-OS deployment and consistent LLM integration.

Full-Stack Portfolio Website

- Developed a React/TypeScript and Node/Express application showcasing AI and systems projects, with automated cloud deployment and build workflows.

Education

M.S. Electrical & Computer Engineering • *The University of Arizona* • Expected: May 2026

- Focus in AI Systems Architecture. Key coursework: Web Development & Internet of Things, Principles of Artificial Intelligence, Systems Engineering Process, Technical Sales & Marketing.

B.S. Electrical & Computer Engineering • *The University of Arizona* • Graduated Magna Cum Laude

- Lead Undergraduate Lab Assistant: Built foundational C/C++ expertise by providing hands-on debugging support and guidance to **150+** students.

Skills

Core Strengths: C++, Systems Design, Debugging Complex Codebases, Reliability Engineering

AI & Integration: LLM-Based Application Design, Prompt Engineering, Applied AI Prototyping, Intelligent Automation

Programming & Tools: Python, JavaScript, React, Node.js, SQL/NoSQL, CI/CD, GitHub Actions

Systems & Cloud: Windows APIs, Linux/Unix, Cloud Services (Azure, GCP basics), API Design, Systems Architecture