Nataly Smith

Email: nmmsoftware@gmail.com
Github: https://github.com/astrogirlnim
Mobile: +1-505-203-6058
LinkedIn: linkedin.com/in/nataly-smith/
Portfolio Website: https://astrogirlnim.github.io/portfolio/

ABOUT ME

AI Engineer & Senior Software Developer specializing in full-stack development, cloud infrastructure, mathematical modeling, and pipeline architecture. Currently developing cutting-edge AI applications at GauntletAI.

SKILLS SUMMARY

- **Languages:** Python, R, C#, C, C++, Bash, Matlab, JavaScript, HTML, CSS, SQL
- **AI/ML:** PyTorch, TensorFlow, LangGraph, Scikit-Learn, OpenCV
- **Frameworks:** .NET, WPF/XAML, Flask, ReactJS, NextFlow, Luigi
- **Tools:** Docker, Git, PostgreSQL, Vim, Azure DevOps
- **Platforms:** Linux, Windows, MacOS, AWS, GCP, Azure, Firebase, JIRA, GitHub Actions, IOS, Android
- **Concepts:** OOP, SOLID, Agile Development, CI/CD, Mathematical Modeling, Machine Learning

RELEVANT EXPERIENCE

Fellowship: Cohort II AI Challenger — Austin, TX
Gauntlet AI — *June 2025 - Present*

- Senior software engineer and second cohort member in highly selective AI training fellowship program.
- Developing and integrating LLMs and agentic workflows into modern applications.
- Collaborating with top-tier engineers on innovative AI-first projects and AI-assisted research.
- Specializing in advanced AI-first development of enterprise grade applications.

Senior Software Developer — Remote
Bruker Cellular Analysis — *January 2023 - June 2025*

- Completed full-scale Azure DevOps migration in just 3 months by coordinating team efforts and creating custom tools.
- Re-architectured long-running critical application, improving performance by 400% through code optimization.
- Decreased data processing algorithm runtime by 75% with code rewrite, meeting critical product specifications.
- Built required testing functionality ahead of schedule, expediting product release by 2 weeks.

Software Developer — Remote
Bruker Cellular Analysis — *January 2022 - January 2023*

- Main developer in creating research tools for next-gen sequencing and genomic analysis.
- Independently developed a web portal that enabled interdepartmental teams to access research tools.
- Introduced automated unit testing and integration testing into CICD pipelines.
- Incorporated C++ computer vision libraries to improve sequencing technologies.

Computer Systems Engineer — Elmhurst, IL
McMaster-Carr — *September 2021 - January 2022*

- Improved company knowledge sharing and education by creating an internal communications hub.
- Delivered business value by developing website features end to end, including Database Schemas and APIs.
- Integrated legacy systems to interface with modern business-critical applications.
- Worked with legacy SDLC, testing, and release schedules and architecture.

Directed Research: Miller-Jensen Laboratory — New Haven, CT
Yale University — *January 2020 - May 2021*

- Built predictive computational models to discover activation behavior of latent HIV using NFsim.
- Generated parameter-phenotype interactome network based on mRNA and protein expression levels.
- Utilized R and MATLAB programming to analyze HIV expression data and visualize trends.
- Published research findings in peer-reviewed computational biology journal.

EDUCATION

Yale University — New Haven, CT
Bachelor of Science - Biomedical Engineering; GPA: 3.64 — *August 2017 - May 2021*

PUBLICATIONS & HONORS

- **Publication:** A transcriptional cycling model recapitulates chromatin-dependent features of noisy inducible transcription (DOI: 10.1371/journal.pcbi.1010152)
- **Awards:** Yale CBIT Healthcare Hackathon Runner-Up, Tsai City Accelerator, Yale Domestic Summer Award
- **Recognition:** Cum Laude Graduate, National Hispanic Scholar, Vincent Cordova Diversity Award
- **Languages:** Fluent in English, Spanish, French