

Jack Margeson

Software engineer, developer, and problem solver at heart.

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EDUCATION

Master of Engineering
University of Cincinnati, Cincinnati, OH, May 2025
Concentration: Computer Science (Software Engineering), 4.0 GPA

EXPERIENCE

Software Engineer Co-op Jan 2024–Aug 2024
Siemens Digital Industries Software, Milford, Ohio

- Utilized LangChain to train large language models for AI assistant applications
- Created custom functions in C to allow large language models to interact with the NX software by performing real-time actions, enabling users to manipulate 3D models using natural language commands
- Refined RAG microservices in Node.js to improve search functionality through embedding-based analysis algorithms, achieving a 50% reduction in query time
- Developed Python server-client application to automate routine activities such as time tracking and weekly report generation based on smart email and calendar analysis, reducing manual effort for all developers by two hours per week

Software Engineer Co-op May 2023–Aug 2023
84.51°, Cincinnati, Ohio

- Played a key role in expanding a new marketing and ad management web platform through proficient development in Angular, Python, and Go
- Engineered a new web-based billing portal utilized by companies such as Kroger, Kraft Heinz, and PepsiCo
- Led a remote team of six and delivered a time-critical major feature for an upcoming product release

Software Developer Co-op Jan 2022–Dec 2022
London Computer Systems, Loveland, Ohio

- Built components for web-based property management software in Angular that greatly impacted user experience by introducing client requested additions
- Migrated functions from desktop application to the web-based Rent Manager Express, streamlining customer efficiency and enabling new workflows
- Communicated designs with large, diverse team utilizing Agile (Jira, Kanban)

Software Engineer Jan 2021–Sept 2021
Osmic Enterprises, Cincinnati, Ohio

- Designed desktop software for medical devices aimed to diagnose and monitor psychophysical olfactory dysfunction
- Refactored 90% of the existing Visual Basic 6 codebase to VB.NET, greatly improving system compatibility and speed
- Implemented customer requested features and test suites for clinical and collegiate olfactory research

SKILLS	<i>Languages:</i> C++, C, Python, Angular, React, TypeScript, NodeJS, C#, x86 ASM, Java, Bash, Go, Visual Basic (.NET, 6), \LaTeX		
	<i>Technologies:</i> Unix/Linux, Docker, Kubernetes, Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP), OpenGL, CUDA, BOINC		
	<i>Databases:</i> PostgreSQL, MySQL, Databricks, Snowflake, SQL Server, MongoDB, SQLite 3		
CERTIFICATIONS	<i>Certified SAFe® 6 Practitioner</i>		
	Scaled Agile, Inc., issued Jun 2024 Credential ID 70748133-5249		
AWARDS & EXTRA- CURRICULAR ACTIVITIES	Awarded <i>Best Co-op Performer</i> , University of Cincinnati		2025
	Achieved <i>Dean's List</i> , University of Cincinnati		2020–2025
	Earned <i>Eagle Scout</i> , Boy Scouts of America, Troop 21 DBC		2019
	Elected <i>Secretary</i> , Hive13, Cincinnati's largest non-profit makerspace		2022–2024
	Elected <i>Executive Director</i> , Mason Hack Club		2020