

Jack Margeson

Software engineer, developer, and problem solver at heart.

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Cincinnati, OH 45219
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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
- Designed microservices in Node.js to improve search functionality through embedding-based analysis algorithms, achieving a 50% reduction in query time

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

- Played a key role in expanding a new 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

- Developed 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, improving compatibility and speed
- Implemented customer requested features and test suites for clinical and collegiate olfactory research

Software Engineer Consultant July 2020–Aug 2020
GE Digital, Cincinnati, Ohio

SKILLS	<i>Languages:</i> C++, C, Python, Angular, React, TypeScript, NodeJS, C#, x86 ASM, Java, Bash, Go, Visual Basic (.NET, 6), L ^A T _E X		
	<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, 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 Dean's List, 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