Jack Margeson

Software engineer, developer, and problem solver at heart.

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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 features for web-based property management software in Angular that greatly impacted user experience through the introduction of new functionality
- 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

Computational Statistician Intern   June 2019–Dec 2019
Procter & Gamble, Mason, Ohio

EDUCATION

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

Bachelor of Science
University of Cincinnati, Cincinnati, OH, expected May 2025
Concentration: Computer Science, 3.91 GPA

CERTIFICATIONS

Certified SAFe® 6 Practitioner
Scaled Agile, Inc., issued Jun 2024
Credential ID 70748133-5249

SKILLS

Languages: C++, C, Python, x86 ASM, C#, Java, Angular, React, TypeScript, NodeJS, Bash, Go, Visual Basic (.NET, 6), LaTeX

Technologies: Unix/Linux, Docker, Kubernetes, Microsoft Azure, Amazon Web Services (AWS), Google Cloud Platform (GCP), OpenGL, CUDA, BOINC

Databases: MySQL, SQL Server, PostgreSQL, MongoDB, SQLite 3

EXTRA-CURRICULAR ACTIVITIES

Earned *Eagle Scout*, Boy Scouts of America, Troop 21 Dan Beard Council
Elected *Secretary*, Hive13, Cincinnati's largest (250+ member) non-profit maker space
Elected *Executive Director*, Mason Hack Club