

# Jack Orlowski

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**Objective** Seeking a software engineering role to apply academic and project experience in building scalable, maintainable applications, while advancing expertise in modern web frameworks, cloud infrastructure (AWS, Docker, Kubernetes), and automated testing. Computer Information Science student with a strong foundation in algorithms, data structures, operating systems, computer networks, and software engineering principles. Proficient in C++, Python, SQL, and ReactJS, with practical experience in distributed systems, AI, and cloud-based development gained through academic and project work.

**Education** B.S in Computer Information Science - *University of Michigan* Dec 2025 | GPA 3.52

<b>Tools/Skills</b>	C++	ReactJS	Visual Studio	PyTorch
	Python	Node.js	SQL	GitHub
	JavaScript	Express.js	MongoDB	

<b>Related Coursework</b>	Computer Science I & II	Computer Networks and Distributed Processes
	Discrete Structures I & II	Introduction to Artificial Intelligence
	Software Engineering I & II	Massive Data Management
	Algorithm Analysis and Design	Information Systems
	Data Structures and Algorithm Analysis	Edge Computing
	Operating Systems	Advanced Game Development

**Projects**

**GenAI Image Detector – Machine Learning Research Project**

- Trained and evaluated models on large-scale datasets (MidJourney, Stable Diffusion, StyleGAN) to ensure cross-dataset generalization
- Utilized PyTorch for model development and Slurm on Great Lakes HPC cluster (A100 GPU's) for large scale training and evaluation
- Collaborated in a team environment using GitHub, Conda environments, and best practices in configuration management

**ProRigs Rental Equipment – Online Equipment Rental Platform**

- Developed a full-stack web application using React and Node.js/Express.js with a MongoDB database.
- Designed and integrated RESTful APIs to handle equipment browsing, reservations, conflict-free booking logic.
- Applied Agile methodology in a 4-person team, delivering features in 2-week sprints with peer reviews and design feedback sessions.