Jake Brinkmann

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Objective

Detail-oriented and motivated software developer with a passion for innovative solutions and a strong academic background in Computer Science. Seeking a challenging software development role to utilize technical skills, leadership abilities, and academic curiosity to contribute to cutting-edge projects.

Education

Bachelor of Science — *University of Michigan - Ann Arbor*
Major in Computer Science, Minor in German Language — *August 2021 – Present*
Cumulative GPA: 3.5/4

Work Experience

Zettawatt Equivalent Ultrashort Pulse Laser System (ZEUS) NSF Lab — *May 2023 – August 2023*
Full Stack Development Intern — *Ann Arbor, Michigan*

- Contributed 7,000+ lines of code to the ZEUS Web Portal.
- Created a Facility Calendar Application, wrote the Authorization API, and conducted code review and documentation.

University of Michigan Recreational Sports Department — *August 2022 – Present*
Personal Trainer — *Ann Arbor, Michigan*

- Manage multiple clients, adapt to individual needs, and enhance teaching skills for optimal results.
- Create custom fitness programs, conduct assessments, and track progress through benchmark tests.

Club Involvement and Projects

Spark Electric Motorcycle Project Team — *Winter 2023 - Present*
Software Sub team

Wrote extensive code to interpret the motorcycles log files and contributed to the team's website. Currently developing software to allow regenerative breaking.

Michigan Sport Consulting Group (MSCG) — *Fall 2021 - Present*
Client Strategy Manager, Analyst

Managed a team to overhaul the group's client acquisition strategy, culminating in a 20 page strategy document. Worked on client facing projects with the New York Islanders and West Michigan Whitecaps.

Spatial Data Analysis with Python (SpatDAPy) — *Fall 2022 - Winter 2023*
Python Package

This package was developed to assist MSCG in conducting Spatial Analyses of areas surrounding stadiums/venues. Cut down 20+ labor hours into 2 labor hours through the use of this package.

Technical Background

Programming Languages	C++, Python, JavaScript, HTML, CSS, Swift, C, SQL
Notable Courses	Data Structures and Algorithms, Linear Algebra, Web Systems, Statistics, Theory of Computation, Intro to Programming in the Sciences, Calculus II

Miscellaneous

Tech Through Osmosis	Podcast	*2023-Present*
Trailblazer Award	Michigan Sport Consulting Group	*2023*
Physical Education Department Award	Eisenhower High School	*2021*