

Jake Brinkmann

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Objective

Detail-oriented software developer with a robust academic foundation in Computer Science, complemented by exceptional communication skills and a genuine passion for client interactions. Actively seeking a challenging software development role to apply technical prowess and leadership abilities to innovative projects.

Education

Bachelor of Science

Major in Computer Science, Minor in German Language
Cumulative GPA: 3.5/4

University of Michigan - Ann Arbor
August 2021 – Present

Work Experience

Zettawatt Equivalent Ultrashort Pulse Laser System (ZEUS) NSF Lab

Full Stack Development Intern

May 2023 – August 2023
Ann Arbor, Michigan

- Improved research proposal workflow by optimizing data routing and creating a real-time shared calendar application, simplifying experiment scheduling and management
- Overhauled the authorization API, implementing session-based email verification to enhance data security for the myzeusportal
- Developed and contributed over 7,000 lines of production code in a small team, ensuring the successful launch of the web portal

University of Michigan Recreational Sports Department

Personal Trainer

August 2022 – Present
Ann Arbor, Michigan

- Proactively distill intricate fitness principles into digestible, client-friendly language, fostering an environment of understanding and empowerment
- Manage a diverse client base, tailoring training programs to individual needs and goals
- Design and deliver tailored fitness programs, conduct comprehensive assessments, and diligently monitor progress.

Club Involvement and Projects

Michigan Sport Consulting Group

Project Advisor | Client Strategy Manager | Analyst

Fall 2021 - Present
Ann Arbor, Michigan

- Spearheaded a game-changing transformation of client acquisition strategies, unleashing an explosive 50% surge in client acquisitions
- Engineered a Spatial Data Analysis Python package that streamlined labor hours from a daunting 20+ to 2 hours
- Crafted and delivered compelling client presentations, effectively communicating complex data analyses in a clear and actionable manner, leading to unanimous client satisfaction

Spark Electric Motorcycle Project Team

Software Subteam

Winter 2023 - Present
Ann Arbor, Michigan

- Contributed extensively to code base for interpreting motorcycle log files and improved the team's website.
- Involved in planning software to enable regenerative braking for Spark's next-generation electric bike

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, Calculus II

Miscellaneous

Coffee Aficionado | Half-Marathon Runner | Formula One Enthusiast | Seinfeld Connoisseur | Novice German Speaker | 2x Fantasy Football Champion | Winter 2024: Studying in Prague | Euchre Enthusiast | Amateur Podcast Host