Jake Block

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EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Science in Engineering in Computer Science — *Aug. 2021 – May 2025*
- GPA: 3.99/4.00   Major GPA: 4.00/4.00
- Course Highlights: Operating Systems, Databases, Computer Security, Data Structures & Algorithms

EXPERIENCE

Software Engineer Intern — *May 2023 – Aug. 2023*
Uber — *San Francisco, CA*
- Resolved critical backend tip processing issue, reducing daily failed tips by 4000 and saving **$40 million** annually
- Leveraged in-depth log and metric analysis to improve tip validation latency by 150ms and reduce technical debt
- Achieved 100% code coverage through comprehensive unit and integration tests, mitigating production issues
- Actively engaged in daily standup meetings and sprint planning sessions, collaborated with the team to ensure efficient progress, and contributed to key project milestones

University of Michigan Solar Car Team — *Jan. 2022 – Dec. 2022*
Strategy Division – 9-time American Solar Challenge Champion
- Led development, training, and optimization efforts for the team's proprietary Simulator, a software tool that simulates millions of races to aid in race strategy planning
- Contributed extensively to the design, prototyping, and testing of solar car components, actively analyzing data and providing valuable feedback for design enhancements to achieve optimal performance
- Conducted real-time performance analysis to model weather conditions and determine the optimal route for the solar car during races, essential to successful race outcomes

PROJECTS

BlueAssignor.com Umpire Assigning Website | *MySQL, PHP, JavaScript, HTML, CSS* — *Spring 2023*
- Developed a user-friendly umpire assigning website that allows umpires to self-schedule games, apply filters, view other contacts, and receive email reminders, resulting in a streamlined and efficient scheduling process
- Implemented a comprehensive administrative system, enabling admins to manage all aspects of the site
- Employed advanced security principles to ensure the integrity and privacy of user data for over 250 daily users, safeguarding the site against potential threats and maintaining a reliable and secure platform for daily use

BlockLifts Weightlifting App | *Dart, Flutter, NoSQL* — *Summer 2022*
- Developed and published a feature-rich weightlifting logging app, incorporating the best functionalities from multiple existing apps and writing over 15,000 lines of code
- Motivates the user after every set with instant feedback and detailed workout progress
- Created a robust backend system capable of storing comprehensive workout logs while providing extensive customization options, empowering users with full control over their workout experiences

LEADERSHIP EXPERIENCE

Eagle Scout, Boy Scouts of America — *Mar. 2009 – Apr. 2021*
- Led a 100+ person troop as the elected Senior Patrol Leader, overseeing and managing all aspects of the troop
- Earned the rank of Eagle after completing a restoration of a local softball field and demonstrating my leadership

Baseball and Softball Umpire — *Mar. 2016 – Present*
- Officiate college-level games each summer, collaborating with managers and players to promote smooth, fair games
- Mediate conflicts and resolve differences through effective communication and conflict resolution techniques

3D Printing and Design Business — *Apr. 2017 – Aug. 2021*
- Founded 3D printing and consulting company, generating yearly profits of over **$10,000** at a **90%** margin

TECHNICAL SKILLS

Languages: C/C++, Go, Python, Dart, JavaScript, HTML/CSS, SQL, PHP
Technologies: Grafana, Flutter, MySQL, NoSQL, Docker, Git, VS Code, CI/CD