Benjamin Burke

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EDUCATION

Purdue University, West Lafayette, IN   Aug 2019 - May 2023
Bachelor of Science in Computer Science   3.43/4.00 GPA
Minor in Mathematics
Concentration in Machine Intelligence

EXPERIENCE

DepBot, Portsmouth, NH   May 2022 - Aug 2022
Software Engineering Intern
- Worked within a team of developers to code a CLI agent that identifies code-based dependency vulnerabilities in a given source code repository
- Wrote robust documentation on the installation process, initial setup, architecture, and features of the UI dashboard
- Conducted rigorous competitive analysis research to identify 5+ potential competitors and help mold the marketing strategy

Computer Science Learning Community, Purdue University   Aug 2020 - May 2022
Undergraduate Student Mentor
- Organized and led 100-person review sessions for midterm exams in freshman computer science courses
- Facilitated 20+ extra help sessions to better help freshman learn and understand complex data structures and graphical user interfaces in Java and C

Purdue Solutions, West Lafayette, IN   Jan 2020 - June 2020
Associate Consultant
- Held meetings with clients to identify ways to improve efficiency, which resulted in an increase of traffic by 70% and streamlined the onboarding process

PROJECTS

Personal Portfolio | *HTML, JavaScript, Git*   Aug 2023
- Developed a professional portfolio website: https://benjaminfburke.github.io/

Linux Shell | *C++, C, Lex, Yacc, Git*   Mar 2022 - Apr 2022
- Created a shell interpreter that coalesced behavior from common shells including Bash and csh
- Included string manipulation, scanning and parsing commands, file redirection, piping, wildcarding, expansions, subshells and handling multiple processes and background processes

CheckMate | *Python, JavaScript, Git, PostgreSQL, pgAdmin, HTML, CSS, Git*   Oct 2021 - Dec 2021
- Created a fully functional multiplayer chess application that allows users to play against other players
- Implemented core chess rules, user-friendly interface, and features like move validation, check detection, and game history tracking
- Utilized a relational database to store and manage user accounts, game history, and leaderboard data, enhancing the user experience.

LEADERSHIP

Sigma Alpha Epsilon Fraternity, Purdue University   Aug 2020 - May 2022
Scholarship Chair
- Reached out to alumni and nationals to identify, coordinate, and create scholarship opportunities, resulting in $25,000 awarded to brothers
- Directed and facilitated weekly study table meetings
- Achieved a 153-man organizational GPA of 3.23, the highest in over a decade

SKILLS & HONORS

Languages: Python, Java, C, C++, MySQL, R, JavaScript, Go, Bash, HTML, CSS
Technologies & Frameworks: PostgreSQL, MongoDB, Excel, Git, Neo4j, React, Accurev, Jupyter Notebook
Honors: Purdue Dean's List and Semester Honors - Fall 2019, Fall 2020, Spring 2023