Jordan Marcell Barkley

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EDUCATION

Purdue University – B.S. in Computer Science, Minor in Philosophy   **December 2020**

TECHNICAL SKILLS

- *Proficient*: C/C++, Java, Swift/Xcode, MIPS Assembly, Git, OOP
- *Familiar*: bash and utils, Python, JavaScript, CSS, HTML, Bootstrap 4, jQuery, SQL, C#, Unity, ARM
- *Exposure, Learning*: JDBC, React, Node.js, Express, R, PL/SQL, x86, 6502, 65816, PowerPC

PROFESSIONAL EXPERIENCE

SePRO Corporation   **May 2016 – August 2017**
IT Intern for 2 Summers   Carmel, IN
- Developed an iOS app to submit water sample metadata digitally for more precise data collection while also giving the lab time to prepare tests for incoming samples
- Integrated the app with an existing Core LIMS Informatics Database via a RESTful API which allows customers to pull all past and future test results regardless if they were submitted with the app or not
- *Technologies used*: Material Components for iOS, AlamoFire API, SwiftyJSON, Core LIMS Informatics Database, Location Services, Barcode Scanner

iD Tech Camps   **May 2020 – Present**
Instructor   Remote
- Teach children ages 6-18 abstract programming concepts (OOP, machine learning, game development) and apply them to age specific interests (Java/Minecraft, Swift/Xcode, Python/AI, Lua/Roblox etc.)

PROJECTS

- [*19XX*](19XX)and [*Smash Remix*](Smash Remix): Reverse engineered Super Smash Bros. 64 to expand functionality (ex: adding new characters and stages) by modifying data and assembly routines of the binary ROM file with byuu's bass assembler (MIPS, assembler specific scripting) and Nintendo 64 Emulator's debugging tools (variable and execution breakpoints, RAM watch, disassembler, symbols, etc.). Currently played in tournament settings by thousands of players; YouTube channel has surpassed 25,000 subscribers; featured in Kotaku not once but twice.

- [*Breader,*](Breader) *Web Application:* A fully customizable, free Spreeder CX clone with saving. The web application flashes one word at a time from a given book making it possible for users to read upwards of 700 WPM. The application uses Bootstrap 4 and pure JavaScript for the frontend and Firebase Authentication/Storage for the backend.

- [*Weat*](Weat)*, iOS Application:* Weat allows users to suggest restaurants to their friends directly and generates suggestions to groups of friends using a kNN algorithm based on restaurants liked/disliked, date eaten, cost etc. It uses Swift/XIBs for it's frontend and a mySQL database, Express server, and Facebook authentication for it's backend.

- [*Personal Website*](Personal Website): Single page web application with all my links, contact information, and portfolio. Uses Bootstrap 4, JavaScript/HTML/CSS and jQuery for the frontend and GitHub pages for the hosting. Currently integrating React components to mitigate duplication.

EXTRA CURRICULAR ACHIEVEMENTS AND AWARDS

Zeta Tau Alpha Big Man on Campus Philanthropy Representative   **September 2018 – March 2019**
- Helped raise $109,000 for breast cancer through Zeta Tau Alpha's year long, multi-philanthropy event

Content Creator of the Year for 19XX   **January 2019**
- Unanimously voted by a panel of Super Smash Bros. community leaders