Liam McBride

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SUMMARY

Software Developer with multiple interests within the field, including: game development, UX design, mobile and web development, API creation, and backend development. A team player with effective communication skills who encourages cross-team collaboration to ensure design integrity.

SKILLS

- **Languages and Technologies:** Python, Java, JavaScript/TypeScript, C#, C, eBPF, Swift. React, HTML, CSS. Git. SQLite3, SQL Server. Django, Docker. Unity, Blender. Figma, GIMP, Aseprite.
- **Soft Skills:** Creativity, teamwork, communication, flexibility, and listening.

EXPERIENCE

Computer Systems Undergraduate Researcher   May. 2023 – Current
Virginia Tech   *Blacksburg, VA*
- Developing **eBPF** tests for multiple programs to ensure validity between kernel modifications.
- Researching kernel development, **eBPF**, and the trade-offs between expression and security.

Software Engineer Intern   Sept. 2021 – Aug. 2022
Exelaration, Rhythm Energy   *Blacksburg, VA and Cary, NC*
- Made Frontend improvements on the customer support portal in **React** and **Typescript**, working closely with Design and QA to make impactful changes for the usability of the system and customer satisfaction.
- Created critical patches for the Backend to mitigate issues. Used **Python** and **Django REST API**.
- Participated and gave input in developer discussions with Product about user needs and how to solve them.

Customer Support Agent   May. 2019 – Aug. 2019
Ubisoft   *Cary, NC*
- Supported Ubisoft customers by using technical knowledge to walk users through how to fix the solution.
- Investigated and verified account ownership, re-obtained access for users in cases of lost or hijacked accounts.
- Successfully elevated more critical bugs to devs and helped to identify early repeat issues.
- Was in the top percentage of customer support agents ranked by customer satisfaction.

PROJECTS

Job Hero iOS App   Feb. 2023 - May. 2023
- Developed, from inspiration to completion, a **iOS** mobile application that would provide users with the ability to track applications, favorite and save jobs, as well as craft multiple resumes with a modular mobile interface.
- Utilized Balsamiq wireframes to design, test, and increase design cohesiveness and clarity for the user interface.
- Used **Swift**, **Xcode**, and **GitHub** to build out the application in a collaborative environment.
  - Created the interaction between the app and three APIs. Responsible for data retrieval and updates.
  - Translated the user interface from Balsamiq to **Swift**, ensuring an effective display of information.
  - Implemented app authentication using **FaceID** and passwords to ensure safe user access.
  - Managed the application database with efficient queries and proper cleaning/storing of data.

EDUCATION

Virginia Tech   **Expected May. 2024**
Bachelor, Computer Science, 3.14 GPA, Coursework focus on frontend development   *Blacksburg, VA*

Clubs and Activities
Theta Tau (Professional Engineering Fraternity)