Ryan McPherson

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Education

University of Florida, Bachelor of Science in Computer Science   Aug 2020 - May 2024

- **Relevant Coursework:** Data Structures and Algorithms, Discrete Math, Computational Linear Algebra, Intro to Software Engineering, Intro to Computer Organization, Information and Database Systems
- **GPA:** 3.81/4.0

Skills

- **Frontend:** Angular, React, JavaScript, TypeScript, Sass, Bootstrap, HTML, CSS
- **Backend:** Node.js, NestJS, Express.js, MongoDB, Firebase, Firestore, C++, Java, Python
- **Other:** Docker, Git, GitHub Actions, Jest, Solidity, Agile, Scrum, Affinity Designer

Experience

Software Engineer Intern | UKG (Ultimate Kronos Group)   May 2022 - Aug 2022

- Developed with an Agile team on an internal tool utilized by 50+ QA engineers using a microservices architecture, Angular, NestJS, MongoDB, and Kafka
- Collaborated with 3 engineers on an Angular UI by submitting 21 pull requests which added new components and services that increased the number of other team's passing builds by 5%
- Implemented a NestJS service to create thousands of documents in MongoDB to store incoming data that expires after 90 days which reduced storage costs by 3%
- Investigated 26 user stories, contributed 3,000+ new lines of code, and merged 28 pull requests across 3 backend services and 1 micro frontend service

Web Developer | Shamrock Auto Trim   Jan 2022 - Feb 2022

- Redesigned and implemented their company website using React, Bootstrap, and modern UI/UX design principles which increased session duration by 150%
- Implemented features like responsive design, smooth scrolling, and accessibility

Tech Lead | UF Software Engineering Club   Sep 2021 - Aug 2022

- Collaborated with an Agile team on a mobile app built using React Native, Node.js, Express.js, and MongoDB that offers a single platform where all college clubs and activities are displayed
- Implemented a data scraping feature to populate the app with events from other platforms like Google Calendar resulting in a 200% increase in content on the app

Projects

Solo Software Engineer | Six Degrees of Spotify   Dec 2021 - Aug 2022

- Developed a full-stack web app that finds how connected 2 music artists are using React, Node.js, Express.js, Docker, and Spotify's web API; visit at sixdos.herokuapp.com
- Engineered a RESTful API to compute shortest paths using breadth-first search (BFS) which reduces the time it takes to find how related 2 artists are from hours to milliseconds
- Constructed a continuous integration/continuous deployment (CI/CD) pipeline with 100% server code coverage using GitHub Actions, Docker, Heroku, and Jest which saves ~30 minutes of manual testing and deployment per pull request

Lead Software Engineer | Push Pin   Feb 2022 - Apr 2022

- Organized and led an Agile team of 4 developers in building a full-stack web app that enables educators and event organizers to connect online with their audience via virtual bulletin boards
- Implemented user authentication, page routing, database document creation/deletion, and global document search using React, Firebase, and Firestore
- Upgraded database protection rules to require both authentication and authorization to prevent injection attacks and data fraud

Solo Software Engineer | Assignments, but Automated   Aug 2021 - Jan 2022

- Developed an open-source automation tool for migrating assignment data across platforms to reduce the time it takes to organize the user's schedule from minutes to seconds using Node.js and Notion and Canvas's web APIs