Cameron Burrows

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EDUCATION

University of Florida   **Gainesville, FL**
Bachelor of Science, Computer Science | Minor in Mathematics   **June 2019 – Aug 2022**
GPA: 3.79 | **Honors:** Cum Laude

WORK EXPERIENCE

Codecraft Works   **Melbourne, FL**
Software Engineering Curriculum Developer   **Jun 2023 – Present**
- Created and developed a comprehensive C++ and Python curriculum for a software engineering course, resulting in an increase in participant satisfaction of 20%.
- Implemented automated testing and tooling for custom C++ and Python assignments, reducing grading time by 75% and improving assignment feedback turnaround to within 24 hours.
- Collaborated with course administrators to design and implement interactive coding exercises, leading to a 15% improvement in participant retention rates.

Take Action Global   **Remote**
Full Stack Software Developer   **Mar 2022 – Mar 2023**
- Developed and implemented advanced algorithms to optimize the performance of the climate education LMS platform, resulting in a 30% reduction in server response time.
- Utilized effective communication and problem-solving techniques to identify and address bottlenecks in the software development process, resulting in a 25% increase in team productivity.
- Architected user authentication process, resulting in a 98% auth success rate and improved the overall user experience.
- Collaborated with cross-functional teams to optimize the platform's performance, leading to a 20% decrease in page latency.
- Utilized Typescript, MongoDB, Express.js, React.js, and Node.js to develop a full-stack web application.

Planet   **Melbourne, FL**
Software Engineer   **May 2021 – Sep 2021**
- Satisfied 75% of requirements for compliance with a Visa Uruguay agreement by updating and implementing new backend and frontend web features.
- Added 100+ new unit tests to the financial tech company's CI/CD pipeline, improving code quality by 10%.
- Collaborated with a cross-functional agile development team to deliver new features on time, contributing to a 30% increase in customer satisfaction.

PROJECT EXPERIENCE

Full Stack - Personal Project   **Melbourne, FL**
Resupplanner   **May 2023 – Present**
- Conceptualized, developed, and implemented a dynamic mobile app catering to the unique needs of backpackers. Recognizing the gap during my own 3-week Appalachian Trail backpacking journey, this solution streamlines food resupply planning.
- Designed an intuitive UI displaying nutritional details, enhancing the planning process utilizing React Native and Typescript.
- Engineered backend functionalities using Express and Node, seamlessly integrated with a MongoDB database for data management and enabled users to craft personalized shopping carts for multiple individuals, featuring a barcode scanning API.
- Utilized: React Native, Typescript, Express, Node, MongoDB, RESTful API

Team Leader - Group Project   **Gainesville, FL**
Mixage   **Jan 2022 – May 2022**
- Led a collaborative effort with peers and faculty members to conceive and develop Mixage, a web application interfacing with Spotify for mood prediction based on listening history, employing machine learning to generate mood-inspired images.
- Spearheaded deployment and rigorous testing of the app, integrated Spotify and Google Maps APIs for global connectivity.
- Employed a novel machine learning pipeline with a custom dataset, created with Keras and CGAN architectures.
- Utilized: Python, Django, Heroku, Keras, CGAN, Bootstrap, Spotify API, Google Maps API

Team Leader - Group/Personal Project   **Gainesville, FL**
AlgoRythm   **May 2021 – Aug 2021**
- Delivered a stable, cross-platform system capable of accurately visualizing audio frequencies using a FFT computation, high-quality Pygame graphics, and Spotify API integration in Python by employing performant programming techniques.
- Continued development as a personal project, facilitated Raspberry Pi execution for concurrent music and video consumption.
- Utilized: Python, Spotify API, Windows Media, Leadership/Communication skills

SKILLS & COMPETENCIES

Programming: React, Typescript, Node, Express, Java, Python, C++, MongoDB, SQL, Django
Tools: Heroku, Git, Unix, Selenium, JUnit, Keras