

Charles A. Daniels

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Objective

My focus is back-end and systems work; I enjoy writing fast, robust code to solve interesting problems. I am seeking a role where I can develop and expand my technical skills while working with and learning from an excellent team.

Education

M.S. Computer Science

- University of South Carolina
- In-progress, expected graduation in Spring 2022, expected GPA of 4.0

B.S.E. Computer Science

- University of South Carolina
- Completed Spring 2019, GPA 3.87

Key Skills

- Languages: C, Go, Python, SQL
- DevOps: Linux, BSD, Docker, CI/CD
- Tools: Git, Make, Shell, GDB, Delve
- Technical writing
- Project planning
- Agile/Scrum

Clubs & Organizations

- UofSC ACM chapter treasurer Fall 2017 - Spring 2019
- Tau Beta Pi member Fall 2017 - present
- Phi Beta Kappa member Spring 2019 - present

Experience

Fyne

Core Contributor (Volunteer)

Lead an initiative and collaborated with other project contributors to create a new system for cross-platform access to the filesystem (and filesystem-like resources) in Go. Developed and implemented a procedure for feature proposals to ensure community consensus on how the feature was to be implemented. Implemented, tested, and delivered the feature, which has since been released in Fyne v2.0.0.

Remote

2020-12 - Present

Krumware

Intern

Developed a back-end software package in Python to stream, cache, and serve real-time stock price data for consumption by a front-end web application. Added and expanded features based on the needs of the team to ensure the web application satisfied customer requirements.

Columbia, SC

2019-01 - 2019-05

University of South Carolina

Graduate Researcher - HeRC Research Group

Undergraduate Researcher - HeRC Research Group

Performed both hardware design (Verilog) and software engineering (C, C++, Python) roles in support of multiple research projects. Worked alone as well as with my research adviser and other graduate students to complete research objectives. Acted as lab system administrator, managing all server and workstation systems used in the lab.

Columbia, SC

2019-08 - Present

2015-05 - 2019-08

Teaching Assistant

Acted as a teaching assistant for multiple courses, including CSCE611 (Advanced Digital Design), and CSCE313 (Embedded Systems). Responsibilities included supervising student lab sessions, holding office hours, grading student homework and exams, and responding to student questions and concerns.

2016-8 - 2021-12

Unisys, Malvern Development Center

Intern - Technical

Developed a new framework for testing an existing web-based GUI for a key Unisys product using Java and Selenium to ensure it functioned correctly. This testing framework replaced an existing, manual test process, saving considerable man-hours.

Malvern, PA

2017-05 - 2017-08

Intern - Technical

Developed a software tool using Python to upgrade legacy installations of a key commercial product to a newer version. Delivered the project into production ahead of schedule.

2016-05 - 2016-08

Built and deployed into production an internal tool using Python to adapt customer support tickets from a legacy database system into a Kanboard instance, allowing engineers to easily track support tickets using the same interface they were already using for engineering task tracking.