David Jefts

Computer Science major focused on software development seeking an internship for Summer 2020.

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EDUCATION

Embry-Riddle Aeronautical University (ERAU) — *GPA: 3.515*
B.S. Computer Science — Minors: Computational and Applied Mathematics *(May 2020)*
M.S. Software Engineering — Accelerated Master's Program *(May 2021)*

- Organization of Programming Languages
- Data Structures and Analysis of Algorithms
- Computer Architecture
- Numerical Solution of Differential Equations
- C Programming and UNIX
- Files and Database Systems
- Operating Systems
- Digital Circuit Design

INTERNSHIP EXPERIENCE

METECS, *REALM Project*, Johnson Space Center, Houston TX
— *Software Engineering Intern at NASA* May 2019 - August 2019

- Provided software engineering services on systems that support NASA's International Space Station (ISS) and Lunar Gateway
- Developed software that aggregated data to assist NASA's Mission Control Center with the location information for items on the International Space Station
- Created a full-stack web tool to display the data from my software and delivered it to NASA Inventory and Storage Officers (ISO) for use in the Mission Operations Center

Cray Inc. *SHASTA Network Management Team*, Austin TX
— *Software Engineering Intern* May 2018 - August 2018

- Researched 3rd-party network management tools/API's
- Implemented software to integrate with 3rd-party network management tools under the direction of a senior engineer
- Participated in design with team lead/mentor in an Agile/Scrum development environment on a 9-person team
- Developed domain expertise, working as part of a small, on-site development team
- Developed network testing tools and robots using Bash and Python scripting
- Decreased workload and increased productivity for the team's Quality Assurance Tester

PROJECT EXPERIENCE

Research Paper: Fuzzy Testing — *Graduate Software Quality Assurance Course*

- Six-page research paper on the capabilities, operation, and use cases for Fuzzy Testing
- Summarized current research and theories for White- and Black-Box Fuzzy Testing
- Described the potential application to existing software development lifecycles for the purpose of ensuring more reliable and secure software

Under Ice Sampling Device — *NASA's 2017-18 Microgravity NExT Challenge*

- Submitted The Ice Core Collection Experimental Device (ICCED) proposal to NASA for the NASA Microgravity University (NASA Microg NExT) 2018 Challenge
- Demonstrated our device in NASA's Neutral Buoyancy Laboratory in Houston TX

Agents AI Software — *Software Engineering Practices Course Project*

- Created an agents program in a Scrum-Agile environment that used a basic AI to control agents on a field and emulate a survival situation
- Users customized their agent JavaFX GUI and competed against computer agents

RECENT WORK EXPERIENCE

Python Course Grader and Tutor, Daytona Beach FL
— *Fundamentals of Computer Programming* September 2019 - Present

- Assisted the professor with grading homework, coding assignments, and exams
- Tutored for the class working to increase the students' understanding of Python

SKILLS

Python, **Java**, Bash, HTML, TypeScript, JavaScript, C, FORTRAN, BASIC, Racket, Excel, LaTeX

MySQL, MongoDB, Docker, Angular CLI, Node.JS RESTful API

Agile-Scrum Development

Linux, MacOS, Microsoft Windows, UNIX

LEADERSHIP

ERAU Microgravity Club
President

Institute of Electrical and Electronics Engineers
Project Lead

Society of Hispanic Professional Engineers
IT Chair (18-19)
Public Relations Officer (19-20)

LANGUAGES

English (proficient)

Spanish (limited working proficiency)

AWARDS / ACHIEVEMENTS

Presidential Scholarship

Dean's List, Fall 2017

Honor Roll, Fall 2018

INTERESTS

Piano

Astronomy

Swimming

Reading

Gaming

**References Available Upon Request*