

David Jefts

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

EDUCATION

Embry-Riddle Aeronautical University (ERAU) — GPA: 3.676

B.S. Computer Science — Minors: Computational Math and Applied Math (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 Micro-g NExT) 2018 Challenge
- Demonstrated our device in NASA's Neutral Buoyancy Laboratory in Houston TX

EasyGift — Major League Hacking Spring 2019 Hackathon at ERAU

- Developed a hackathon project to increase consumer ease-of-access to information about gift card balances and received the "Best Rookie Project" Award
- Utilized Google's Tesseract API to read written text and employed intelligent web-crawling algorithms to determine the current balance of gift cards for a multitude of companies

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

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SKILLS

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

MySQL, MongoDB, Docker,
Angular CLI, Node.JS RESTful
API, GitHub/GitLab, JIRA,
Redmine

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