Alec Perry

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Education

University of Texas at Austin, B.S. in Computer Science

Expected December 2021. *GPA: 3.4*

Classwork:

Computer Science

- Computer Vision
- Algorithms
- Virtualization
- C++ Programming (C++)
- Object Oriented Programming (C++)
- Operating Systems (C)
- Robot Learning Research (Python)

Mathematics

- Differential Eq. / Linear Algebra
- Engineering Physics I & II
- Integral and Differential Calculus
- Multivariate Calculus

Languages / Skills

Strong Experience:

- C / C++
- Java / C#
- <JavaScript jQuery HTML CSS />
- Python
- Bash/Linux and Git

Familiar With:

- Unit and Integration Testing
- GitLab and GitHub CI/CD
- Docker
- SQL
- Enterprise Application Suites

Honors / Awards

Society of Information Management Scholarship

Fall 2018 / Spring 2019

For my work at Code Longhorn as a Program Assistant

Work Experience

NASA Lunar Gateway Program
Summer '20

Internship with CACI International Inc.

- Supported the Lunar Gateway Program's flight software as an intern for the Gateway Data Services Team under JSC's ER Division.
- Contributed to their data production environment, by adding new features to all parts of their C#/ASP.Net Core based application that interacts with a SQL server representation of Gateway's Data.
- Cooperated with my team through Agile methodologies in a remote work environment.

Texas Spacecraft Lab
Winter '19 – Present

SERPENT Communications Team Lead

- Organize and engage a small team in activities relating to the development of a CubeSat's communications subsystem, our school's student ground system, and all relating software.
- Adapted to kept my team engaged during a shift to remote work for the COVID-19 pandemic through creative uses of Slack and Zoom.

NASA Johnson Space Center IRD
Summer '19

Intern with MORI Associates

- Supported NASA's mission aboard JSC's COMIT contract as the Application Development/Data Center department's intern.
- Serviced Gitlab tickets on internal Coldfusion/ASP.net applications used by other contractors and GS at JSC/WSTF.

Code Longhorn
June '18

Program Assistant

- Led a group of high school students from around Texas as a role role and counselor to promote interest in Computer Science.
- Instructed students on basic programming techniques through the use of C++ to script a light show presentation.

Projects

Robot Learning Research
Jan '19 – May '20

uses: **Python, C++, Sawyer Robots**

- Developed a research question and experimented with scenarios surrounding techniques that utilize robots to teach / improve humans' kinematic skills, alongside 2 other student researchers.

Automated Personal Media Server
May '16 – Present

uses: **Bash, Java, <HTML>, Ubuntu / Linux**

- Automated the burning and re-encoding of video files with bash scripts to communicate with program's CLIs.
- Designed a Java program that parses title information from obfuscated data to find what's important.
- Implemented bash CGI scripts to allow changing and viewing the state of the headless server from a local Apache server.