**SIERRA MAPLE**

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KEY TECHNICAL SKILLS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C/C++ | Angular | HTML/CSS | Windows/Linux |  |
| C# | ReactJS | Git | Unity |  |
| Go | Jasmine | Bash | Agile Scrum |  |

PROFESSIONAL EXPERIENCE

Software Engineer | Astronics AES | Everett, WA Dec 2019 – Present

* Integrated network data loading protocol into Avionics computer using Go
* Generated user interface designs for mobile application intended for displaying and recording of flight data
* Optimized internal Windows applications used by the manufacturing team, increasing their efficiency and ease of use
* Developed Jasmine tests for verification of an avionics computer’s web portal
* Contributed to the early design stages of a C++ streaming server for translating avionics bus data into ethernet
* Designed and developed custom C++ low level API to translate avionic protocols into ethernet protocol to reduce the need for learning proprietary Astronics drivers for products, reducing effort required by users
* Prototyped an IoT device as research for future Smart Aircraft development
* Maintained and improved Azure-based Angular web portal for device management

Software Intern | Pacific Northwest National Laboratory | Seattle, WA Jun 2016 – Jul 2019

* Directed software development of a desktop application in C# for a platform intended to evaluate partner countries’ export control mechanisms and processes
* Created a dynamic data visualization using C# for use in virtual reality environments
* Converted an internal application portal from JavaScript to ReactJS
* Contributed to the inception, design, and development of three virtual reality games in Unity that serve to demonstrate computer science concepts to K-12 students

PROJECTS

catscraper.sh Apr 2021

* Bash script that routinely queries pet adoption websites and emails specified users with available cats and a link to their applications
* Hosted on a physical Linux machine and executed at scheduled intervals through Cron

Falcon Fitness Jan – May 2019

* ReactJS web application through which Seattle Pacific students in remote fitness facilities can access tutorials and information on exercise machines
* Used Google Firebase to manage website hosting, database, and user authentication

AWARDS AND RECOGNITIONS

* **Outstanding Performance Award** for work performed at Pacific Northwest National Laboratory’s National Security Directorate on a high impact project with international stakeholders and national and international security implications

EDUCATION

Bachelor of Arts in Computer Science | Seattle Pacific University | Seattle, WA Jun 2019