

Christian Carrico

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EDUCATION

Colorado State University — Fort Collins, CO

Bachelor of Science, Computer Engineering

Aug. 2012 - Dec. 2017

Bachelor of Science, Mathematics with a concentration in Information Theory

Aug. 2015 - Dec. 2017

SKILLS

Languages:

Python

C

C++

JavaScript

Java

Additional:

MongoDB

MySQL

Git

AWS

LaTeX

EXPERIENCE

CCDC AvMC: Athena Lab — Colorado Springs, CO

Computer Engineer

Apr. 2018 - Present

- Maintained an active Secret level security clearance: 2014 - present
- Drove development of several lab projects as the government lead by coordinating contractor and government efforts
- Improved project deliveries by capturing customer requirements into JIRA and organizing sprints for new project features
- Evaluated small business proposals for technical merit on behalf of the Missile Defense Agency
- Engaged with small businesses on Small Business Innovation Proposals to monitor progress and provide technical guidance on contract requirements
- Mentored student interns by delegating noncritical tasks that contribute to the mission and individual growth

CSU Linear Accelerator Research Lab — Fort Collins, CO

Engineering Intern

July 2012 - May 2013

- Developed a website to capture the Accelerator Lab's research and faculty for public consumption
- Gathered materials for the lab's public image by interviewing professors and graduate student teams

Electrical & Computer Engineering College — Fort Collins, CO

Student Ambassador

Aug. 2012 - Aug. 2014

- Lead ECE department activities as an example of the departments students to educate and encourage potential freshman

PROJECTS

Scalable M&S ETL Pipeline

- Prototyped several data pipelines using open source frameworks like Apache Storm, Apache Beam, and Apache Airflow
- Achieved a speed up improvement of 12x using Python's multiprocessing library over the next best implementation
- Bundled the pipeline as a Python package to scale across a Dockerized M&S environment

Workflow Planning Web Application

- Supervised sprint planning for a .NET application used to manage COCOM exercise planning
- Completed frontend and backend development tasks to incorporate new features like email notifications and tasking functionality
- Dramatically improved codebase quality by refactoring C# controllers and standardizing JavaScript web views

Data Warehouse Design Study

- Conducted a systematic trade study for to compare commercial off-the-shelf data storage and pipeline solutions
- Deployed and integrated promising tools with Amazon Web Services to prototype a management system for petabyte-scale Modeling & Simulation data

Operational Data Parsing Tool

- Spearheaded development of a Python tool to parse data from structured and unstructured sources into Operational Testing reports
- Utilized the Agile methodology to deliver continuous updates to functionality during a critical test period

Snowflake Classification Project

- Trained a machine learning model to classify snowflake images for a CSU research group
- Improved the research group's previous classification rate by 15% using an ensemble of neural networks

Kaggle Data Science Bowl 2019

- Organized a team of coworkers for the on-going Data Science competition