

# Christian Carrico

chrismcarrico@gmail.com

(303) 517-2910

linkedin.com/in/chrismcarrico

## 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*

## EXPERIENCE

---

### CCDC AvMC: Athena Lab — Colorado Springs, CO

*Computer Engineer*

*Apr. 2018 - 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 SBIR/STTR contracts to monitor progress and provide technical guidance
- 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 the lab's website to represent lab research and faculty
- 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*

- Led ECE department activities as an example of the department's students to educate and encourage potential freshman

## PROJECTS

---

### Scalable M&S ETL Pipeline

- todo

### Scalable M&S ETL Pipeline

- todo

### 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 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

## SKILLS

---

**Languages:** Python C C++ JavaScript