

CHRISTOPHER PITTS

COMPUTER SCIENTIST

PHONE 505.205.2985 **EMAIL** Christopher.William.Pitts@gmail.com **WEBSITE** cwpitts.com **LINKEDIN** linkedin.com/in/cwpitts/ **LOCATION** Albuquerque, New Mexico

EDUCATION

MASTER OF SCIENCE, Computer Science-Machine Learning
The Georgia Institute of Technology-Atlanta, Georgia, 2020

BACHELOR OF SCIENCE, Computer Science
Brigham Young University- Provo, UT, 2017

PRESENTATIONS AND LECTURES

GUEST LECTURE | UNIVERSITY OF UTAH, COLLEGE OF COMPUTER SCIENCE, SALT LAKE CITY, UTAH
APRIL 2019

- "Your Missing Semester"
- Spoke to computer science students regarding important areas for early career entry, and ways to bridge the gap between traditional computer science education and what is expected of a modern computer scientist or software engineer

PRESENTER | BRIGHAM YOUNG UNIVERSITY, COMPUTER SCIENCE DEPARTMENT, PROVO, UTAH
APRIL 2019

- "Computer Science: An R&D Computer Scientist's Prospective"
- Presented information related to the life of an R&D scientist at a federally funded research and development center, and the differences between private and defense autonomous sectors

PRESENTER | OPENWEST CONFERENCE, SALT LAKE CITY, UTAH
JUNE 2018

- "Supercharge Your Bash Prompt"
- Presented on techniques for more efficient uses of command line interfaces

PRESENTER | OPENWEST CONFERENCE, SALT LAKE CITY, UTAH
JULY 2017

- "Programming in Bash for Fun and Profit"
- Presented on introductory techniques and best-practices for writing and deploying shell scripts

PRESENTER | OPENWEST CONFERENCE, SALT LAKE CITY, UTAH
JULY 2017

- "Build Awesome Websites with Flask Python"
- Presented and discussed explanatory techniques and methods to utilize Flask Python to develop web service backends

TEACHING EXPERIENCE AND UNIVERSITY INVOLVEMENT

REMOTE ADJUNCT FACULTY | BRIGHAM YOUNG UNIVERSITY, REXSBERG, IDAHO
DECEMBER 2020 - Present

- "CSE210 Programming with Classes"
- Taught material related to fundamental object-oriented programming concepts

CURRICULUM ADVISORY BOARD MEMBER | UNIVERSITY OF UTAH, COLLEGE OF COMPUTER SCIENCE, SALT LAKE CITY, UTAH

FEBRUARY 2019 - Present

- Represented Sandia National Laboratories in discussions on curriculum, program development, research development and opportunities, and hiring needs
- Invited to speak with computer science students about starting and continuing careers in computer science

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PROFESSIONAL EXPERIENCE

R&D COMPUTER SCIENTIST | SANDIA NATIONAL LABORATORIES, ALBUQUERQUE, NEW MEXICO

DECEMBER 2018 – Present

- Researched, designed, and implemented feature extraction and machine learning algorithms for processing overhead satellite imagery
- Developed new file formats and software libraries to process synthetic aperture radar imagery for automated target recognition research
- Directed work of year-round and summer interns to support mission objectives
- Served as expert resource on testing methodology and continuous integration and continuous development processes

SOFTWARE SYSTEMS ENGINEER | SANDIA NATIONAL LABORATORIES, ALBUQUERQUE, NEW MEXICO

MAY 2017-DECEMBER 2018

- Led transition to integrated development environment using Docker and GitLab CI improving development time and customer facing reporting
- Developed signal processing and analysis software for seismic sensor networks
- Directed technical work of summer intern including tasking, review of completed work, and integration into final product

SYSTEMS ADMINISTRATOR | BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH

JANUARY 2016 – APRIL 2017

- Designed, implemented, and deployed software across more than 500 machines used by students and faculty on a daily basis
- Designed web-based user interface and backend for managing teaching assistant group membership

LAB SUPERVISOR | BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH

JANUARY 2015 – JANUARY 2016

- Audited student C++ for quality and performance, including offering feedback to students on performance and security flaws
- Taught program methodology and best practices

RELATED SKILLS, LANGUAGES, AND PROFICIENCIES

- C++ and C
- Python
- Java
- Javascript
- Golang
- Scientific Python, NumPy, Scipy, Jupyter, Pandas, Scikit-learn and Scikit-image
- Linux
- Git, GitLab, GitHub
- Automated testing and deployment
- Virtualization and containerization (Docker, Vagrant, Podman)

SPECIAL PROJECTS

- Roku Station | C++ library and desktop application for discovery and control of Roku devices
- Helder | Command-line tool for control of Phillips Hue smart bulbs
- News Feed Aggregator | Web app to aggregate topic-based newsfeeds