

Michael Xiao

2992 Shadow Creek Drive, #201, Boulder 80303 | michael.xiao@colorado.edu | 303-642-6601 | U.S Citizen
<https://mxiao.me> | <https://github.com/MDXiao> | <https://www.linkedin.com/in/michael-xiao-520630b2/>

EDUCATION

University of Colorado, Boulder, CO

May 2018

B.S in Computer Science (Senior)

Minor in Business

Selected Courses:

Big Data Architecture, Intro to Virtual Reality, Compiler Construction, Network Systems, Object Oriented Design, Intro to Cybersecurity, Database Systems, Operating Systems, Linux Administration

TECHNICAL SKILLS

- Java, C/C++, Python, VBA/Excel, Scala, Linux, Shell Script, MySQL, Git/GitHub, AWS, Raspberry Pi
- English – Native Proficient, Chinese – Proficient

ENGINEERING EXPERIENCE

Carbon Black Inc.

Boulder, CO

Associate Software Engineer

July 2018-Present

- Currently working on the data team maintaining and scaling a pipeline processing terabytes of data everyday.

University of Colorado

Boulder, CO

Research Assistant

August 2017-May 2018

- Developing a machine learning based tool to assist researchers on big data analytics using python, scikit-learn, and pandas
- Analyzing 50MB of textual data with LIWC values for determining the performance of various machine learning algorithms

DigitalGlobe

Longmont, CO

Software Engineer Intern

May 2017-August 2017

- Applied Agile software development methodology and learned the process for building complex software for satellite imaging
- Worked as a team member in a highly collaborative team environment using Java and Bash scripts

University of Colorado

Boulder, CO

Course Assistant of Computer Science Dept.

Fall 2016-Spring 2017

- Worked as the Professor's assistant on the Operating Systems class for two semesters
- Evaluated programming assignments, created weekly quizzes, and held office hours for assisting up to 20 students per week on Operating Systems topics

Avaya Inc.

Thornton, CO

Rotation Assistant / Global Design Center Intern

May 2016-August 2016

- Worked in the Advanced Solutions Architect team on design documentation automation
- Developed Visual Basic codes for multiple Microsoft Excel and Visio macros to reduce human effort and improve design efficiency

PROJECTS

Python Compiler – Compiler Construction Course project

Boulder, CO

Developer

Fall 2017

- Designed and developed a compiler pipeline that translated Python programs to executable x86 Assembly
- Investigated properties of incorporating static and hybrid type checking into the Python language subset

Informant – Tweet based company sentiment analyzer

Boulder, CO

Project Lead and Back End Developer

Spring 2017

- Developed the pipeline that can analyze the sentiment of 500 tweets per minute using Apache Kafka, Storm, and AWS
- Collaborated with the Front-End Developers on data visualization through D3 and Node Express

Magic Mirror – Personal Project using Raspberry Pi

Broomfield, CO

Solo Project

Fall 2017-Present

- Built and Designed a Raspberry Pi Magic Mirror using JavaScript, Bash Scripting, and RESTful API
- Incorporated Amazon Alexa Voice skills, PIR motion sensors, and cameras for facial recognition capabilities