

# RYAN J. FASCHING

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## EDUCATION

- **Bachelor of Science in Computer Science** *August 2014 – Present*
- *University of Colorado, Boulder*
- **3.35 GPA out of a 4.0** scale in major of Computer Science (B.S.).

## TECHNICAL SKILLS

- Coding: Python, Java, Javascript, C/C++, Scala, Tensorflow, Keras, x86 assembly, HTML
- Environments/Technologies: Git version control and GitHub, SQL Databases (MySQL, PostgreSQL), NoSQL Databases (Mongodb), Ssh, Shell scripting (Bash), Nodejs, Foreverjs, Plotly, Docker, Amazon Web Services, Linux, Windows,

## RELEVANT COMPLETED COURSEWORK

- Object Oriented Programming Design and Analysis, Principles of Programming Languages, Data Mining, Network Systems, Algorithms, Operating Systems, Software Development Methods and Tools, Data Structures, Database and Information Systems, Computer Systems and Discrete Structures.

## PROJECTS/EXPERIENCE

- **Assisted OSM editor Sponsored by Trimble - Still involved heavily**
  - Implemented server functionality:
    - Retrieve/Store/Update all data in our RDS instance running PostgreSQL using our endpoints
  - Scripts to automate the collections of NAIP images and OSM data then store in DB (AWS RDS) for future use in Neural Net
  - Tensorflow and Keras for our model to identify if a tile from NAIP imagery has a building present
    - Categorizing NAIP tiles for training and testing data by cross referencing to OSM data
    - Output is used by our reversed engineered iD editor
- **Data Analytics project for Data Mining**
  - Analyzed cryptocurrencies for market analysis using Python
  - Pre-processes data sets accordingly using Pandas
  - Used Plotly for data visualizations
- **Internship at small startup (Shapevibe) - Still Involved when available to**
  - Nodejs, Express and MongoDB for back end functionality
  - Implemented Docker image on the t2.micro instance for Mongo
  - Implemented bash scripts for easy startup and some automation
  - API experience: Twitter, Facebook, SendGrid, Amazon Simple Email Service, Passportjs
- **Barebones website imitating Yelp for OOP**
  - Used the MVC design pattern
  - Used Nodejs and Express for the Models and Controllers and JQuery and HTML for Views
  - Implemented basic functionality (add review, make account, view all business, etc.)

## LEADERSHIP EXPERIENCE

- Volunteer Coach, Roller Hockey** *December 2013 to August 2015*
- Coached kids ages 4 to 14; communicated with parents as well
  - Served as head coach for teams at numerous teams

## ADDITIONAL

- Volunteer, Aurora Animal Shelter** *June 2014 to August 2015*
- Served as a dog walker/ companion for numerous sheltered and frightened dogs
  - Cleaned up after dogs on walks and in their kennels
  - Learned how to adapt to different situations; variety of dogs
- Floor Worker, Elvis Cinemas** *Summer 2016 and Winter Break 16'-17'*
- Managed responsibilities of cashier, usher, clean-up crew, box office
  - Gained insight into how to handle challenging customers

**HOBBIES:** Fly Fishing, ALPINE SKIING, ICE HOCKEY