

## EDUCATION

**Michigan Technological University** • Houghton, MI, USA (Fall 2011 – Summer 2015)

Bachelor of Science in Computer Science • Minor in Mathematics

Cumulative GPA: 3.01 • Department GPA: 3.13

- Completed coursework involving Artificial Intelligence, Data Mining, Data Structures, Systems Programming, Concurrent Programming, Formal Models of Computation, Computer Architecture, and Algorithms.
- Programmed in Java ,C ,C++ ,Python and R for courses.

**Study Abroad, University of Ghana** • Accra, Ghana, Africa (Fall 2015)

- Established rapport with individuals of different backgrounds, cultures, and beliefs.
- Volunteered at a home for the socially disadvantaged.
- Succeeded academically in a radically different educational system.

## WORK

**Rutherford & Associates** (February 2016 – August 2019)

- **Software Developer** (August 2016 – August 2019)
  - Investigated and created a proof of concept dot matrix image recognition system in Python.
  - Researched and implemented various forecasting methods to allow for offline time series analysis.
  - Collaborated with customers to make an order suggester for end users.
  - Designed and implemented a voice assistant for mobile platform to allow hands free usage.
  - Created a recommender model creation service to create and propagate updated models to customer devices.
  - Implemented a memory based and a model based collaborative filtering recommender model for mobile.
  - Worked on an ecosystem spanning a variety of platforms and technologies.
  - Supported a vast legacy code base, refactoring in controlled and testable updates.

**Data Migration Specialist** (February 2016 – August 2016)

- - Extracted, transformed, and loaded databases from newly acquired clients into company system via SQL.
  - Augmented legacy C++ application with a SQL export feature to allow for cleaner extractions of client data.
  - Communicate project status with company team leads, consultants, and client data migration team.

**Jackson National Life Insurance - Software Engineering Intern** (Spring 2013 – Summer 2015)

- **Microsoft Access Database Migration** • Project Lead (Spring 2015 – Summer 2015)
  - Lead a team of three to migrate databases from Access 2000 to Access 2013.
  - Communicated with end users to understand and fix bugs in multiple Access GUIs and databases.
  - Deployed database migrations and fixes to production.

**Employee Scheduling Application** (Fall 2014 – Summer 2015)

- - Worked in a team of five to develop an application to aggregate employee hours to create schedules.
  - Migrated prior scheduling database from Access to SQL.
  - Designed and maintained schema, views, and procedures throughout project changes.
  - Integrated migrated database with newly created database.

- **Recruitment Application** (Spring 2014 – Summer 2014)
  - Worked in a large team to develop an application to streamline the recruitment and hiring process.
  - Facilitated RESTful communication between Java server and clients.
  - Responded to various user requests throughout development and changed application accordingly.
  - Maintained database schema throughout project changes.

**Dynamic Dashboard Application** (Summer 2013 – Fall 2013)

- - Worked in a team of four to develop a customizable dashboard for internal company use.
  - Created the user interface with Java and HTML.
  - Designed the database schema for gadget information persistence.
  - Wrote stored procedures in SQL to access, modify, and delete user data.

- **Programmer Performance Evaluation Application** (Spring 2013)
  - Worked in a team of four to develop an application to report programmer performance to managers.
  - Created the user interface with HTML, JavaScript, and Java .
  - Helped create database schema to store employee attributes.
  - Wrote stored procedures to calculate various scores and metrics.

## PERSONAL

**Roguelike** (January 2020 – Now)

- Developing a roguelike in Rust that is powered by an entity component system.
- Planned out a long term road map for the game to ensure focus and scope of project.

**Appalachian Trail Thru-Hike** (August 2019 - May 2020)

- Hiked the entirety of the Appalachian Trail ( 2,200 miles) within a twelve month period.