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## 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.