

EMPLOYMENT

May 2017 to Aug 2017

National Security Agency · Data Science Intern

- Explored large datasets using visualizations and statistical models; used findings to support the creation of analytics.
- Initialed analytic to accelerate the processing of collected data of NSA's cloud computing platform.
- Incorporated the analytic into a NSA tool designed for strategic and tactical planning

PROJECTS

Aug 2017 to Current

Hutter Prize Project

- Initiated research on state-of-the-art compression techniques involving Recurrent Neural Networks
- Explored the Hutter Prize File, containing 100mb of Wikipedia articles, to understand structure of the data
- Experimented with hashing algorithms in attempt to create proof of concept

Mar 2017

Dots A.I.

- Modeled an artificial dots player in Racket to generate optimal moves for a given board state using Alpha-Beta Pruning
- Expanded knowledge of graph and search algorithms by experimenting with different methods of generating optimal moves

Aug 2016 to Nov 2016

Drivers

- Developed software to organize volunteer transportation of a local non-profit by dividing attending children among varying available transportation that reduced route overlap
- Experimented with multiple clustering algorithms with use of the strategy pattern
- Used Google Maps API for geolocation and routing
- Estimated by project sponsor that software delivered on ~90% of customer's requests

EDUCATION

2018

University of Evansville

B.S. Computer Science

B.S. Mathematics

Double Degree

GPA 3.18

2018

Udacity

Machine Learning Engineer Nanodegree

Deep Learning Nanodegree

ACTIVITIES

Feb 2017

Open Source Contribution · Pybee/Batavia

Contributed to the Batavia project by editing the new user page for clarity and fixed bug in the installation script

Nov 2016

Competition · ICPC Mid-Central 2016 contest - Team Evansville A

Sep 2017 to May 2018

Association of Computing Machinery (ACM) · President

Led the ACM Chapter on campus

SKILLS

TECHNICAL SKILLS

Matlab, Python, R, Modeling/Analysis, Git, Unix, C, C++