Holland Emery

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College Park, MD

EDUCATION

- **B.S. Computer Science**
  University of Maryland, College Park
  2017-2021

EXPERIENCE

- **UPS**
  Software Engineer Intern
  Intern writing Java for the UPS web service, helped create and maintain services including payment services
  2020-2021

PROJECTS

- **BitTorrent Client**
  Worked with a team to create a BitTorrent client that could seed and leech from verified peers
  Python
- **NFL Draft Success**
  Uses Data Science to analyze the success of NFL players and how success in the NFL correlates to position in the NFL Draft
  Python, SQL
- **Fractal Generator**
  Generates multiple different fractals including the Mandelbrot, Dragon Curve, and Buddhabrot based on their mathematical definitions
  Java
- **Maze Solver**
  Creates and solves randomly generated Mazes of variable size, the Maze generation is performed with the recursive backtracking algorithm and is solved with a variation of Dijkstra's algorithm called A*
  Java
- **Arithmetic Equation Neural Network**
  Working with a team I created a machine learning algorithm that uses Neural Arithmetic Logic Units (NALU) and Neural Accumulators (NAC) to solve simple arithmetic equations
  Python

SKILLS

- **Languages**
  Python, Java, C, JavaScript, PHP, Ruby, OCaml, Rust
- **Tools**
  SQL, Latex, Linux, HTML, CSS, Git
- **Software Development Fields**
  Machine Learning, Computer Security, Computational Linguistics, Object Oriented Programming, Algorithms

Relevant Courses

- **Computational Linguistics**
  Graduate Level Class about fundamental methods in natural language processing
  Spring 2021
- **Deep Learning**
  Introduction to Deep Learning as well as its applications
  Spring 2021
- **Computer Networks**
  General introduction to existing network protocols. Communication protocol specification, analysis, and testing
  Fall 2020
- **Computer & Network Security**
  An introduction to the topic of security in the context of computer systems and networks
  Spring 2020
- **Advanced Data Structures**
  Description, properties, and storage allocation functions of data structures
  Fall 2019

INTERESTS


Data Science


Problem Solving


Machine Learning


Cyber Security