

# Name

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## EDUCATION

**AMHERST COLLEGE**, Amherst, MA Expected, May 2019  
*Bachelor of Arts in Computer Science and Mathematics*

- Cumulative GPA: 3.81/4.00
- **Relevant Coursework:** Data Structures, Algorithms, Machine Learning, Computer Systems, Computer Security, Networks, Linear Algebra, Multi-Variable Calculus, Statistics, Data Science,
- **Technical Skills:** Proficient: Java, Python, HTML, CSS, R, Microsoft Office; Exposed to: C, SQL, JavaScript

## WORK EXPERIENCE

**3BL MEDIA**, Northampton, MA June 2018 – Present  
*Web Development Intern (part-time)*

- Analyzed code on **GitHub** and presented findings to the CTO to help upgrade current processes
- Work with or exposed to WordPress, **Ruby on Rails**, **JavaScript**
- Migrate an existing **SQL** database of customer data into an online application

**AMHERST COLLEGE**, Amherst, MA September 2016 – Present  
*Mathematics Teachers Assistant, Computer Science Department Assistant*

- Facilitate help sessions for various mathematics courses 6-8 hours per week
- Grade homework for Introduction to Calculus and Introduction to Computer Science

**PHOENIX LIFE INSURANCE COMPANY**, Hartford, CT June – August 2018  
*Annuity Actuarial Paid Summer Intern (full time)*

- Developed reports for regulatory bodies for annuities and investments
- Improved the efficiency and accuracy of the Annual Statement process by working with FIA, FA, and VA products
- Delivered presentation to actuarial department summarizing impact of improved Annual Statement process
- Engaged in weekly meetings with executives to discuss technical aspects of various companywide projects

## PROJECTS

### **STEGANOGRAPHY – Computer Security**

- Developed a program to detect and extract data hidden within JPG files using **Java** by interpreting certain bits from the RGB channels as Strings or Images and successfully extracted 70% of hidden data from images provided.

### **DIJKSTRA'S ALGORITHM – Data Structures**

- Implemented Dijkstra's Algorithm in order to find the quickest path between any two nodes in a graph using a Priority Queue written in **Java**

### **HUFFMAN ENCODING – Data Structures**

- Implemented Huffman Encoding by first implementing a Priority Queue to compress files by representing the most common characters in a text file with the least number of bits; Compressed three text files by an average of 56%.

### **MAZE GENERATOR AND SOLVER ALGORITHM – Data Structures**

- Implemented a Union-Find to generate n-by-n mazes of any size in **Java**
- Implemented Depth First Search and Breadth First Search using an adjacency list in order to solve generated mazes

## ACTIVITIES & LEADERSHIP

**ASSOCIATION OF AMHERST STUDENTS** April 2017 – Present  
*Student Senator, Class of 2019*

- Attend weekly meetings; determine student organization fund allocations; oversee school events
- Contribute to Honorary Degree Advisory Committee, Student-Athlete Committee, and Elections Committee

**AMHERST COLLEGE MEN'S BASKETBALL**, Amherst, MA August 2015 – Present  
*Varsity Team Member*

- Compete in the NESCAC; participated in NCAA DIII Final Four in 2016
- Dedicate ~30+ hours/week for practice, film, travel, and games

**WORLD MACCABIAH GAMES – Gold Medal** August 2010 – Present  
*Participant*

- Won an Olympic Gold Medal for USA on Men's Basketball team in the World Maccabiah Games in Israel
- Participated in the JCC Maccabi Games for Team Springfield in various cities across the country