

MYRIAM BENKOUSSA

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OBJECTIVE

A rising senior at Bryn Mawr College, majoring in Computer Science at Haverford College. Projected graduation date May 2019. Strong analytical skills and interdisciplinary approach to problem solving, with interest in the applications of computer science to finance, big data, systems engineering, and cybersecurity.

EDUCATION

Bryn Mawr College, Bryn Mawr, PA

Class of 2019

Haverford College, Haverford, PA via the Bi-College Consortium

Major in Computer Science

GPA: 3.3/4.0

Relevant Coursework: Analysis of Algorithms, Compiler Design, Principles of Programming Languages, Principles of Computer Organization, Programming Paradigms, Fin Tech, Financial Accounting, Theory of Computation, Intro to Economics, Linear Algebra, Multivariable Calculus, Discrete Mathematics, Speech Synthesis & Recognition, Computational Linguistics, Human-Computer Interaction, Data Structures, Physics I, Physics II.

Senior Thesis: completed computer science thesis research advised by a Haverford College faculty member.

Title: Risk Mitigation in Public Key Infrastructure (PKI) Implementation within the Internet of Things (IoT)

Grade Obtained: 4.0/4.0

Honors/Awards:

- Recipient of Rewriting the Code Undergraduate Fellowship, a selective national fellowship for women in software engineering and technology.
- Nomination by the Undergraduate Dean's Office for the Goldwater Scholarship, which recognizes students with a distinguished academic record in engineering, mathematics, or the natural sciences.

SKILLS AND QUALIFICATIONS

- **Programming Languages:** C/C++, Java, Python, Scheme/Racket
- **Scripting/Markup Languages:** JavaScript, HTML, CSS, XML
- **Assembly Languages:** MIPS, HERA, LogiSim (digital logic circuit simulator)
- **Cloud Computing and Big Data Technologies:** Cloud Foundry, Kafka
- Experience with Agile; including roles as both Scrum master and developer on development team.
- Familiarity with data management and organization (using OpenRefine and R); Google Analytics
- PC proficiency (Microsoft Excel, Word, PowerPoint, Publisher)
- Fluent in French, Algerian; Competent in Arabic, Latin

PROFESSIONAL EXPERIENCE

Software Engineering Intern | JP Morgan Chase

June 2018-August 2018

- Worked as a part of an Agile team to develop software solutions to migrate the Chase Loyalty Solutions email service from a monolithic application to a self-contained microservice in the cloud platform.
- Technologies used: Java, Maven, Spring Boot, Cloud Foundry, Kafka.

Digital Scholarship Summer Fellow – Lead Developer | Bryn Mawr College

June 2017-August 2017

- Digital scholarship project sponsored by Bryn Mawr College Library and Information Technology Sciences. Worked in a team of fellows to develop, design and implement a data visualization project of college archives.
- Technologies used: Python, OpenRefine, R, HTML/CSS, JavaScript, D3, jQuery, JSON.

Computer Science Teaching Assistant and Grader | Haverford College

August 2016-Present

- TA and grader for the following courses at Haverford College: Principles of Programming Languages, Principles of Computer Organization, Introduction to Computer Science, Data Structures.

RELEVANT PROJECTS

- Fully-functional compiler in C++ and HERA assembly language for the Tiger language
- GFORTH interpreters in C++, Racket, JavaScript, and HERA assembly language
- Twitter stock data sentiment analysis using Python
- Modeling and simulation of a 16-bit microprocessor based on the HERA assembly language using LogiSim

LEADERSHIP EXPERIENCE

Bryn Mawr and Haverford College Bi-Co Repr – Founder and President

(bico-repr.github.io)

Bryn Mawr College Sudo Hoot – Treasurer

(sudohoot.com)

Her Campus Bryn Mawr – Editor-in-Chief and Author

(hercampus.com/author/mimi-benkoussa)