

NOUR BENMOHAMED

EDUCATION

Dartmouth College, Hanover, NH

June 2021

Bachelor of Arts, Major in Computer Science, Minor in Mathematics

Major GPA: 3.6/4.0

Relevant Coursework: Introduction to Programming and Computation (3x TA), Data Structures and Algorithms, Object Oriented Programming, Discrete Math in Computer Science, Design Thinking, Software Design and Implementation (1x TA), Machine Learning and Statistical Data Analysis, Full-Stack Web Development.

TECHNICAL COMPETENCIES

Languages: Java, Python, C, C++, Go, HTML, CSS, SQL, JavaScript, Bash.

Technologies: React.js, Node.js.

Miscellaneous: Git.

WORK EXPERIENCE

Google Inc, Sunnyvale, California

June - September 2019

Engineering Practicum Intern: Config Data Push (CDPush) Team

Built a new component for a configuration distribution system that periodically discovers and cleans up configuration files that are no longer used for version assignment to a given client.

Implemented a RPC server to ensure the transfer of information between the configuration distribution system and the new component which is necessary for the cleanup process.

Learned **C++**, **SQL**, **Go**, and worked with distributed systems.

Attended tech and leadership workshops at the Google We Are GWE (Google Women in Engineering) summit.

Department of Computer Science, Dartmouth College, Hanover, NH

January 2018 – Present

Teaching Assistant for Professors Thomas Cormen, Devin Balkcom, and David Kotz

Graded midterms, final exams, and lab assignments for a 170+ student class while providing personalized feedback on code functionality and style.

Led weekly review sessions for nine students to review key CS concepts such as program structure, data structures, object-oriented programming, recursion, software design and implementation, and programming in **Python** and **C**.

Held three weekly hours of open office hours to assist students with understanding and applying concepts from class, working on lab assignments, or preparing for exams.

Department of Mathematics, Dartmouth College, Hanover, NH

March 2018 - Present

Grader for multivariable calculus

Graded weekly assignments for three sections of ~50 Students, provided feedback on organization and clarity of proofs.

Developed time management skills by having all assignments graded in time for the students to receive feedback before the next assignments are due.

PROJECTS

React City: Designed and launched a full stack, React.js game within a five-member team. In the game, players build a city and edit interactions between its different components and as a result learn how to use React.js (**JS, HTML/CSS**).

Tiny search engine: Programmed a search engine that allowed the user to search within the college website directory using keywords. Included a crawler, indexer, and a querier. (**C, ~2,000 lines**)

Maze Project: Built, within a group of four, a multi-player client game to automate solving mazes it receives from a designated server (**C, ~1,000 lines**)

Part of Speech Tagger: Using Hidden Markov Models and the Brown Corpus (**Java**).

File compressor: Developed a lossless text file compression and decompression program that uses Huffman encoding for the smallest possible fixed encoding of a file. This brings together trees, maps, and priority queues. (**java**)

LEADERSHIP & ADDITIONAL ACTIVITIES

Women in Computer Science, Dartmouth, Hanover, NH; *Member*

2017-19

IamRemarkable, Google Inc, Sunnyvale, CA; *Workshop Facilitator*

2019

International Student Association, Dartmouth college, Hanover, NH; *Member*

2018-19

Dartmouth College Outing Club (DOC), Hanover, NH; *First Year Trip Leader, Flat water Kayaking Leader*

2017-19

SKILLS & INTERESTS

Languages: Arabic (native), French (fluent), English (fluent); Additional Interests: Kayaking, Rock Climbing.