Noble Mushtak

Available July 2021-December 2021

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☆ rebrand.ly/nhmsite | ♠ Noble-Mushtak | ➡ Noble-Mushtak

Education

Northeastern University-Khoury College of Computer Sciences

Boston, MA

CANDIDATE FOR BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHS

Sep. 2019-Present, Expected May 2023

• **GPA:** 4.0/4.0

• Graduate Courses: Topology | Algebra | Advanced Algorithms

• Undergrad Courses: Object-Oriented Design (ongoing) | Networks and Distributed Systems (ongoing) |

Theory of Computation | Logic and Computation | Linear Algebra | Probability and Statistics

Marshwood High School

HIGH SCHOOL DEGREE

South Berwick, ME

Sep. 2015-Jun. 2019

• Ranking: Class Valedictorian

Skills _

Languages Proficient in Python, C, C++, Java; Familiar with HTML, CSS, JavaScript, Bash, Haskell, Rust

Systems Windows, Mac OS, Ubuntu, Debian, Android **Software** Google Docs, Google Sheets, Git, LaTeX, Overleaf

Experience _

STUDENT TUTOR

Northeastern University

Boston, MA and Online

Jan.-Apr., Sep. 2020-Present

• Tutored for Northeastern's Fundamentals of Computer Science I course

• Reviewed and left thorough feedback on students' coding homework assignments

Held office hours in order to mentor and guide students on homework assignments

Northeastern Summer Math Research Program

Online

STUDENT RESEARCHER

May-Jun. 2020

- Worked with another Northeastern undergrad to study fractional revival in quantum spin chains
- Coded Sage program to find graphs which exhibit fractional cospectrality
- Wrote 58-page paper in LaTeX explaining results, including several proofs
- Created and presented 45-minute Beamer slideshow to explain results in front of Northeastern's math department

Spin Analytical

Kittery, ME

PROGRAMMING INTERN

Jun.-Aug. 2017, 2018, 2019

• Coded multiple Qt5 GUI programs for Raspberry Pi using C++ and Boot2Qt

- Ported and improved data analysis application which calculated electrophoretic mobility of a macromolecule to Qt5
- Developed multithreaded Qt5 application which interfaced with several hardware devices to control a custom instrument used in drug synthesis
- Wrote 20-page user manual for aforementioned multithreaded Qt5 application in LaTeX

Projects and Activities _

Competitive Programming

Dec. 2014-Present

- Competed in several competitions where one solves complex problems using algorithms and data structures
- Currently candidate master on CodeForces, 5-star rating on CodeChef
- Placed 1001st in the world in Google Code Jam Round 2 2020
- Competed in Platinum division of USACO during high school

Permit Log Jan. 2017-Dec. 2018

- Mobile app which helped Maine learner's permit holders track hours of required driving practice
- Created Android app in team of three high school students using Android Studio, Java, and Firebase
- Won first place in Maine App Challenge 2017
- Maintained on Google Play Store from Feb. 2017-Dec. 2018, had 6000 users at peak