NAMYA MALIK

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EDUCATION

Dartmouth College, Hanover, NH
Master of Science in Computer Science — **August 2022**
Bachelor of Engineering in Computer Engineering — **March 2021**
Bachelor of Arts in Engineering Science — **June 2020**

WORK EXPERIENCE

Deloitte, Arlington, VA — **Summer 2021**
Incoming Solutions Engineering Intern

- Incoming Solutions Engineering Intern in the Government & Public Sector

Dartmouth College, Hanover, NH — **2019-2020**
Teaching Assistant & Peer Tutor

- TA for COSC 50 (Software Design & Implementation): Held office hours to assist students learning Linux and C, graded student submissions, and answered students' questions daily
- TA for ENGS 21 (Introduction to Engineering): Worked closely with a group of students to help them identify a societal need, design and analyze proposed solutions, and engineer a final working prototype
- Tutor for COSC 1 (Introduction to Programming & Computation): Provided academic guidance to students learning Python

Collins Aerospace, Everett, WA — **Summer 2019**
Program Management Intern

- Analyzed data from the financial ledger and identified $2.2M cost-saving opportunities in manufacturing scrap reduction
- Served as the lead Program Manager in a cross-functional team for the replacement of a Display Lavatory Unit

Digital Applied Learning and Innovation (DALI) Lab, Hanover, NH — **Spring 2019**
Project Manager

- Managed a team of designers and developers to build a set of online linear algebra games for a client

PROJECT-BASED EXPERIENCE

IoT Device Sniffer (M.S. Research), Hanover, NH — **Spring 2021-Present**

- Currently building an IoT (Internet of Things) device discovery + inventory system using network scanning

GNSS + IMU Inertial Navigation System (ENGS 89/90: Engineering Capstone), Hanover, NH — **2020-2021**

- Interfaced between a microcontroller and GNSS chipset to produce location data for a GNSS & IMU navigation system

Social Distancing Implementation System (ENGS 86: Thayer School Independent Project), Hanover, NH — **Spring 2020**

- Built devices that used microcontrollers to communicate with each other through radio frequency and ultrasound signals, alerting users when two units were within close proximity (six feet) of each other

Tiny Search Engine (COSC 50: Software Design & Implementation), Hanover, NH — **Spring 2020**

- Created a search engine that crawled the web and retrieved webpages, created an index of the number of occurrences of a word on a particular webpage, and answered search queries by returning a list of webpages ranked by relevance

Find Items App (COSC 65: Android Programming), Hanover, NH — **Spring 2020**

- Developed an Android application that allowed users to save the location of commonly misplaced items (keys, wallet, etc.) in a database by using text, voice and/or taking a picture
- Leveraged Google APIs such as Speech-to-Text and Object Recognition to build a user-friendly interface

Automatic Salt Spreader (ENGS 21: Introduction to Engineering), Hanover, NH — **Winter 2019**

- Prototyped a rotating sprinkler device that emitted salt onto non-drivable surfaces such as ramps & staircases to melt snow

Electronic Combination Lock (ENGS 31: Digital Electronics), Hanover, NH — **Summer 2018**

- Programmed a FPGA board using VHDL to create a lock that compared a user's 4-digit keypad input to a hardwired passcode
- Incorporated features such as LED indicators and a lock-out mode that engaged after three consecutive failed input attempts

ACADEMIC AND EXTRACURRICULAR ACHIEVEMENTS

Honors/awards: Citations for Meritorious Performance in COSC 50, Citation for Meritorious Performance in ENGS 86, James O. Freedman Presidential Scholar, Sophomore Research Scholar, Neukom Scholar
Leadership: Dartmouth Women's Club Soccer, Dartmouth Outing Club Trip Leader

SKILLS

Programming: C, Python, Java, Android Development, Assembly, HTML 5/CSS 3, JavaScript, VHDL
Systems & Tools: Linux, Git, Scapy
Hardware: Raspberry Pi, Arduino, ARM Microcontrollers, FPGAs