

Nabeel Eledroos

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EDUCATION

UMASS AMHERST

BS in Computer Science

2017 - 2021 | Amherst, MA

- College of Information and
Computer Sciences

- Commonwealth Honors College

- GPA: 3.6 / 4.0

COURSEWORK

CORE

Algorithms

Data Structures

Computer Systems Principles

Discrete Probability/Mathematics

Functional Programming

Web Programming

Calculus

Linear Algebra

Differential Equations

ELECTIVES

Machine Learning

Artificial Intelligence

Natural Language Processing

Computer Vision

Digital Forensics

Applied Cryptography

Combinatorics/Graph Theory

Physical Computing

Operating Systems

Computer Networks

SKILLS

PROFICIENT

Java • Python • NumPy • Pandas

Javascript • React • HTML5 • CSS

C • C++ • Arduino • Bash Scripting

INTERMEDIATE

SQL • Docker • Kubernetes

Swift • Scala • Adobe Creative Suite

LINKS

Github: [nabeel-eledroos](#)

LinkedIn: [nabeeledroos](#)

Website: [nabeel-eledroos.github.io](#)

EXPERIENCE

INTUIT | Software Engineering Intern

May 2020 – Aug 2020 | Mountain View, CA (Remote)

- Worked on the QuickBooks Ecosystem Discovery team as a full-stack developer.
- Designed and Implemented an in-product feedback loop to personalize user experience and help understand user interest.
- Learned JavaScript/ReactJS to create an overflow menu UI on offers with options to save or hide, and created a place for users to save these offers.
- Integrated UI Components with back-end APIs for CRUD functionality and created system dashboard to capture tracking metrics.

F5 NETWORKS | Software Engineering/Networking Intern

May 2019 – Aug 2019 | Billerica, MA

- Worked on the host-OS team as a full-stack developer, writing code for the operating system of a next generation load balancing machine.
- Designed and developed a python script inside a Docker container to allow clients to interface with an external ConfD database.
- Wrote bash scripts to implement required functionality on the operating system, such as importing files and installing packages.
- Redesigned legacy code within the operating system which yielded a decrease in boot time.

IDEMIA | Software Engineering Intern

May 2017 – Aug 2017 | Billerica, MA

- Developed unit tests for the eID (electronic ID), a mobile ID Android app written in Java with Android Studio.

PROJECTS

MNIST DECISION TREE

Python(NumPy, Pandas, Matplotlib)

Developed a decision tree of user specified depth to decide whether an image from a subset of the MNIST dataset is a 3 or an 8.

CARICATURE DRAWBOT

Python, Java, Arduino

Developed python code to take a picture, extract the contour lines, and convert to SVG file to be read by the drawbot. Also built the drawbot which is controlled by two motors, and wrote Arduino code to read the image and draw it on a whiteboard.

GESTURE CONTROLLED CAR

Arduino, Java

Developed Arduino code to wirelessly connect a microprocessor in a toy car to a Myo armband which reads hand gestures to control the car's movement. Also developed an Android app to allow the armband to send information to the car.

ACTIVITIES

UVC-TV19 | Web Developer | Videographer

2018 - Present | Amherst, MA

As Web Developer, work on keeping the website up to date, and regularly adding new features. As Videographer, provide video coverage and editing of events and promotional videos for campus clubs.