

YUSUF SAQUIB

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EDUCATION

CARNEGIE MELLON UNIVERSITY

Bachelor's of Sciences Degree in Computer Science
Minor in Business Administration
Expected Graduation in May 2022

WORK EXPERIENCE

VOLUNTEER TEACHER @ CARNEGIE MELLON UNIVERSITY

JUL – AUG 2021

- Volunteered for the Code in Alice Program to teach Computer Science basics in Alice to middle and high school students.

RESEARCH ASSISTANT @ CARNEGIE MELLON UNIVERSITY

DEC 2020 – MAY 2021

- Researched vulnerabilities and attack vectors on Internet of Things devices' firmware and potential extraction methods.

SOFTWARE ENGINEERING INTERN @ BIOMOTIVATE

JUN – AUG 2020

- Prototyped software and hardware features for a product.
- Improved existing prototype functionality for consumer use.

SOLE FOUNDER @ MELAKIA

JUN 2019 – DEC 2020

- Built an online store for custom Arabic Calligraphy products.

COURSE ASSISTANT @ CARNEGIE MELLON UNIVERSITY

JAN 2019 – PRESENT

- Helped and supported students with course content.
- Assisted Professors with grading assignments.

PROJECTS

LISO WEB SERVER

SEP 2021

- Created a web server from scratch in C for a course project.
- Implemented CGI, TLS, and HTTP request parsing.

PROFESSIONAL WEBSITE

JUN – AUG 2021

- Created my own personal professional website using React JS, TypeScript, and Google Firebase.
- Learned the basics of web development and design.

DIGITAL CANVAS

NOV 2019 – DEC 2019

- Created a device that tracks an object using ultrasonic sensors attached to motors and draws its path on a GUI.
- Programmed a TI Tiva C microcontroller in C, GUI in Python.

EXTRACURRICULARS

COMPUTING CLUB PRESIDENT

SEP 2021 - PRESENT

PLANETARY SOCIETY PRESIDENT

SEP 2021 - PRESENT

NSA CODEBREAKER CTF 2021

AUG 2021

TAEKWONDO SPARRING TOURNAMENT

OCT 2018

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

C · Python · SML NJ · JavaScript · Typescript

SOFTWARE AND TECHNOLOGIES

Unix · GDB · Git · Adobe Creative Cloud
Microsoft Office · Google Cloud Platform

CERTIFICATIONS

BASIC LIFE SUPPORT & FIRST AID

MAR 2019 – PRESENT

TAEKWONDO 2ND DAN BLACK BELT

JAN 2018 – PRESENT

KEY COURSES

COMPUTER SCIENCE – SYSTEMS

15-213: Computer Systems
15-330: Computer Security
15-348: Embedded Systems
15-441: Computer Networks

COMPUTER SCIENCE – THEORY

15-251: Great Theoretical Ideas in CS
15-316: Foundations of Security and Privacy
15-451: Algorithm Design and Analysis

LANGUAGES

NATIVE SPEAKER

Arabic · English

PROFICIENT SPEAKER

Urdu