

Johnny Boustany

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Contact

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Skills & Interests

- Full-Stack Web Developing, Embedded Software, AI/ML
- C, C++, Python, Java, JavaScript, HTML/CSS, React, Angular, SQL, OCaml, Arduino
- MATLAB, SolidWorks, OnShape, AutoCAD, Adobe After Effects & Premiere Pro
- English (Native Fluency), Arabic (Native Fluency), French (Conversational)
- Surfing, Videomaking, Environmental Advocacy

Coursework

Object-Oriented Programming, Algorithms & Data Structures, Deep Learning, Software Engineering, Compilers & Program Analysis, Computer Graphics, Multi-Variable Calculus, Statistical Inference, Computer Aided Visualization and Design

Awards & Honors

- American Community School of Beirut (High School) – National Honor Society, Valedictorian 4.00 GPA
- Brown University – Elected to Sigma Xi, The Scientific Research Honor Society

Education

Brown University
Providence, RI

- B.Sc. Mechanical Engineering 2018-2022, GPA: 3.70
- M.Sc. Computer Science Expected Graduation 2023, GPA: --

Experience

Beytek SAL Offshore

Jal El Dib, Lebanon

Software Engineering Intern

Summer 2022

Stack: JavaScript, Angular, HTML/CSS

- Redesigned the dashboard page of the Customer Portal and enabled 30+ employees to cater to customer needs using a streamlined, intuitive UI
- Built a reactive to-do list application with 3 routes and multiple forms

Brown University,

Providence, RI

Student Researcher at Harris Lab

Spring 2022

Stack: Python (Tkinter, PyAudio)

- Designed a GUI wave generator app to allow users to produce and plot sine wave signals with adjustable frequencies and time durations

Engineering Intern at Tripathi Lab

Summer 2021

- Operated the Agilent 2100 Bioanalyzer software on Developer Mode

S. & A. S. Co. Ltd

Jieh, Lebanon

Computer Engineering Intern

Summer 2020

Stack: C

- Debugged a program for the STM32G030 microcontroller to improve performance of the UCM Relay product
- Built a paint application for the 7" screen TFT Indicator product and implemented it by programming a STM32F429 microcontroller

Brown-RISD Arab Society, Upper-Class Rep. Sep. 2020 – Dec. 2021

Brown Refugee Youth Tutoring, Mentor Sep. 2019 - Present

Projects

Typeically

Spring 2022

Stack: Java, SQL, JavaScript (React)

- Platform that allows users to type to the lyrics of their favorite songs for entertainment and typing practice
- Uses an SQL database to display user submissions in a leaderboard and uses Genius and Spotify APIs to obtain song information

Texture Classifier

Spring 2022

Stack: Python (TensorFlow)

- Uses 2 base deep learning models, ResNet and VGG, to classify texture

K9Vision Engineering Capstone

Fall 2021

Stack: Arduino

- Device that produces signals to steer blind dogs away from obstacles
- Uses an Arduino Nano BLE 33, ultrasonic sensors, and piezo buzzers