

JOHNNY BUI

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SUMMARY

Distinguished 4.9 GPA MIT student with extensive academic and work experience in Python and JavaScript
Proven and dependable student leader who develops software solutions for real-world problems

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Junior - Course 6-2: Electrical Engineering and Computer Science

Cambridge, MA

2017 – (Grad: 6/2021)

- Dedicated and self-motivated student with an interest in systems and software engineering
- Consistently seeking academic challenge with a cumulative 4.9 GPA

CAESAR RODNEY HIGH SCHOOL

Concentration in Engineering

Camden, DE

2013 – 2017

- Accomplished student with a cumulative 4.0 GPA upon graduation

EXPERIENCE

JET PROPULSION LABORATORY

Search Team Intern

La Cañada Flintridge, CA

Jun 2019 – Aug 2019

- Investigated approaches to improving the relevance of image search through contextual tagging and deduplication
- Wrote a modular library that uses NLP and OCR technologies to infer the contents of an image based on surrounding webpage text, deployed library into a cluster using Docker and Kubernetes
- Implemented a resize-sensitive image deduplication process that is highly-scalable using sub-linear search
- Designed and developed a modern search front-end that improves user experience and result discoverability

GLOBAL TEACHING LABS

EECS Instructor

Amman, Jordan

January 2019

- Prepared and presented curriculum to international high school students on beginner Arduino and Python
- Worked with the school administration to design a functional makerspace for students
- Served as a mentor during an afterschool hackathon hosted by the high school

TECHNIQUE

Technical Director

Cambridge, MA

Sep 2017 – Present

- Oversee the technical operations of Technique, the MIT student yearbook and photography club
- Develop in-house solutions to solve challenges relating to the design and management of the yearbook
 - *Technique Student Portal*: web app that manages senior biographical info, has resulted in a complete elimination of reported errors in the senior section as compared to previous years
- Manage storage and database infrastructure to ensure photos and student data are highly-available and secure.

SKILLS

PYTHON: Able to develop correct and performant software solutions using data structures and relevant coding methodologies. Experience is backed with relevant coursework.

JAVASCRIPT: Familiar with Node.js, browser JS, and frameworks such as Express.js and React.js. Currently in use for multiple personal and academic projects.

REST APIS: Extensive experience in leveraging the use of third-party APIs and RESTful API development for testing

NOTABLE PROJECTS

NAGINI: Contextual-tagging and image deduplication library developed during my time at JPL (Python, React)

SIMPLEPING.DEV: A fast and straight-forward network latency measurement tool right in your browser (JS)

VEGETABLE ASSASSIN: A *fruit-ninja* inspired game where players use a physical sword to slice online veggies