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EDUCATION

Amherst, Mass.   **University of Massachusetts Amherst**   **Jan. 2019 – May 2022**

- B.S. in Computer Science, Political Science – Commonwealth Honors College – GPA: 4.0
- Relevant Coursework: Programming w/ Data Structures, Computer Systems Principles, Reasoning Under Uncertainty, Programming Methodology, Calculus II, Multivariate Calculus, Linear Algebra
- Spring 2021 Coursework: Intro to Computation, Intro to Machine Learning, Software Engineering

EMPLOYMENT/EXPERIENCE

UGRAD Research Program   **College of Information and Computer Sciences**   **Dec 2020 – Jan 2021**

- Participated in a 5-week undergraduate research experience, where I was mentored by PhD student Bhawana Chhaglani to create an adaptive sampling algorithm used to optimally map a 2D scalar field.
- Collaborated with two other students to implement a Gaussian process and adaptive sampling algorithms using Python and scikit-learn.

Web Developer   **Public Higher Education Network of Mass.**   **Dec. 2020 –**

- Migrated the PHENOM website and the organization's email to a new hosting provider, revamped user experiences, and designed digital canvassing tools for supporter recruitment.

Secretary of Technology   **UMass Student Government Association**   **May 2020 -**

- Redesigned the SGA website, a university-hosted WordPress-based site, cut load times in half
- Pioneered an official guided tour iOS experience for the university in collaboration with University Relations and Admissions
- Lead a variety of COVID-19 related initiatives: online student resource hubs, a virtual student veteran resource center, collective email campaigns, and COVID special elections pages.

Engineering Intern   **Bin1 ATE – Ashland, Mass.**   **Summer, 2019 & 2020**

- Worked at a startup specializing in automated test equipment for semiconductor manufacturing
- Gained hands-on experience with precise instrumentation, electronics and software design
- Skills developed include procedure & documentation creation, PCB design, and embedded SWE

PROJECTS

- **Creator – Béton3 Macro Pad** (2020). Created an Arduino-based open-source macro pad design hosted on GitHub. Custom firmware, hardware, CAD chassis, and concrete cast volume knob. C, Arduino, CAD
- **Sole Developer - UMass Campus Tour** (2020). Collaboration with the University of Massachusetts on an official iOS and watchOS campus tour experience, targeted at prospective students. User-friendly design, GPS walking guidance, voice narration, and campus navigation. Swift, SwiftUI
- **Sole Developer – UMass Campus Architecture** (2020). A content-rich iOS interactive guide designed to highlight the architecture of the UMass campus in Amherst, Mass., featuring 132 points of interest across campus. My first venture into iOS development. Swift, SwiftUI

ADDITIONAL EXPERIENCE AND AWARDS

- **Member**, UMass Racial Justice Coalition (2020 -)
- **Columnist,** Massachusetts Daily Collegian (2019 -): Published in the university's student newspaper
- **Awards:** Phi Kappa Phi Honor Society, Dean's List (all semesters), John and Abigail Adams Scholarship, David C. Knapp Scholarship

LANGUAGES, TECHNOLOGIES, AND SKILLS

- **Python; C; Java;** JavaScript; Swift; React; MATLAB; HTML/CSS; node.js; iOS; Linux; Arduino;
- LaTeX; Xcode; Eclipse; Visual Studio; CAD (Autodesk, Solidworks); Photoshop; Illustrator;
- communication; teamwork; leadership; management; strategy; graphic design; user experience;