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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, Intro to Computation, Intro to Machine Learning, Software Engineering

EMPLOYMENT/EXPERIENCE

REU Research Intern **College of Information and Computer Sciences** **Jun 2021 -**

- Interning with the Laboratory for Advanced System Software at UMass Amherst, through a REU-funded 10-week research experience.
- Working on an on-campus air circulation and monitoring research project using distributed sensor systems.

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

- Participated in a 5-week research experience, where I was mentored by PhD student Bhawana Chhaglani to create an adaptive sampling algorithm for optimally mapping a 2D scalar field using a Gaussian process.

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 – April 2021**

- Redesigned [the SGA website](#), a university-hosted WordPress-based site, cut load times in half
- 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

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- **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

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- **Member**, UMass Racial Justice Coalition (2020 -)
 - **Peer Advisor**, College of Information and Computer Sciences (2021 -)
 - **Columnist**, Massachusetts Daily Collegian (2019 -): Published in the university's student newspaper
 - **Awards**: Phi Beta Kappa, Phi Kappa Phi Honor Societies, Dean's List (all semesters), John and Abigail Adams Scholarship, David C. Knapp Scholarship

LANGUAGES, TECHNOLOGIES, AND SKILLS

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