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## EDUCATION

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

- **B.S. in Computer Science, Political Science – Commonwealth Honors College – GPA: 4.0**
- **Coursework:** Algorithms, Data Structures, Systems Principles, Statistics, Multivariate Calculus, Linear Algebra, Intro to Computation, Machine Learning, Software Engineering, Artificial Intelligence, Networks

## EMPLOYMENT/EXPERIENCE

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**REU Research Internship & Independent Study** **College of Information and Computer Sciences** **Jun 2021 –**

- Joined the Laboratory for Advanced System Software at UMass Amherst, through a REU-funded 10-week experience in the summer, and through an Independent Study in the fall.
- working on two on-site research projects concerning air quality, circulation, & distributed sensor systems.
- Co-authored a paper currently in submission, which examines the use of classification and regression models with a smartphone microphone stack to predict the speed and presence of airflow.

**Honors Thesis Research** **College of Information and Computer Sciences** **March 2021 –**

- Advised by Prof. Cameron Musco, exploring the behavior of recommender systems when deployed on a variety of graph topologies, approximating the differential impacts of social network structure and the resulting opinion dynamics, with a particular focus on polarization and disagreement.

**Web Developer** **Public Higher Education Network of Mass.** **Dec. 2020 – April 2021**

- 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.

**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 Chhagiani to create an adaptive sampling algorithm for optimally mapping a 2D scalar field using a Gaussian process.

**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 embedded software design and precise sensor systems

## PROJECTS

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- **Sole Developer - [Backtrack](#)** (2021). A privacy-centric, open-source location logging solution that provides a history of location data for device with minimal battery impact, leveraging extensive iOS system APIs. [Swift](#).
  - **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 Architecture](#)** (2020). A content-rich iOS interactive guide designed to highlight the architecture of the UMass campus in Amherst, Mass. [Swift](#), [SwiftUI](#)

## ADDITIONAL EXPERIENCE AND AWARDS

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

## LANGUAGES, TECHNOLOGIES, AND SKILLS

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- Python; C; Java; JavaScript; Swift; React; Kotlin; HTML/CSS; MATLAB; node.js; iOS; Linux;
  - NumPy; SciPy; NetworkX; scikit-learn; TensorFlow; PyTorch; LaTeX; Xcode; CAD; Photoshop;
  - research; teamwork; communication; management; strategy; graphic design; user experience;