

# ANNIE QIU

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## EDUCATION

**Dartmouth College**, Hanover, NH

**June 2024**

*Bachelor of Arts, Double Major in Computer Science and Studio Art*

**GPA 3.90/4.0**

*Relevant Coursework:* Full-Stack Web Development\*, Introduction to Programming and Computation\*, Object-Oriented Programming, Discrete Math in Computer Science, Algorithms, Machine Learning, Design Thinking, 3-D Digital Modeling\*, Intro to UI/UX Design (\* denotes a Citation of Academic Excellence)

*Honors/Awards:* Honor's List (Top 15%), 5 Citations of Academic Excellence

## RELEVANT EXPERIENCE

**Digital Applied Learning and Innovation (DALI) Lab**, Hanover, NH

**August 2021 – Present**

*Full-Stack Software Developer & Digital Designer*

- Develops front and back-end software for full-stack web and mobile applications using tools such as React, React-Native, Redux, Ruby on Rails, and GitHub
- Collaborates with teams of developers, designers, and project managers to design, prototype, and develop products for external partners using the agile method in 10-week sprints

**Dartmouth Computer Science Department**, Hanover, NH

**March 2022 – June 2022**

*Teaching Assistant for Object-Oriented Programming*

- Lead weekly recitation sections and office hours, graded problem sets, exams, and short assignments for 10 hours a week
- Guided students on Java, debugging, and topics including algorithms, data structures, and time complexity

**Dartmouth Computer Science Department**, Hanover, NH

**March 2021 – December 2021**

*Research Assistant*

- Assisted in research project on modeling physical systems with neural projections and artificial intelligence learning
- Developed algorithms with PyTorch to generate data through level-set functions to project points upon geometric shapes and modified neural network to maximize training for varying surfaces
- Awarded \$5000 in grants through Women in Science Project and Undergraduate Research Assistantship programs

## PROJECTS

**Well Buddies**

**March 2022 – June 2022**

*Full-Stack Software Engineer & UI/UX Designer*

- Designed and developed web application to encourage students to prioritize their wellbeing with a digital pet using React, Firebase, and Javascript that won 2<sup>nd</sup> place in Health & Recovery track for HackDartmouth 2022
- Extended website by designing and developing mobile app that suggests wellness activities based on users' calendar availability using React-Native, Redux, MongoDB, Node, and Express

**Sexual Violence Prevention Project** (with the DALI Lab)

**August 2020 – Present**

*Full-Stack Software Engineer & UI/UX Designer*

- Designed and developed full-stack web application to track student progress in Dartmouth's four-year sexual violence prevention program to be used for 4,000+ Dartmouth students and staff
- Supported critical security and authentication for multiple administration permission levels in backend software using Ruby on Rails
- Implemented back-end logic and front-end code for core features of allowing admins to assign curriculums to students and assign courses to curriculums

**Parts of Speech Tagger**

**January 2021 – March 2021**

*Software Engineer*

- Developed a Part of Speech tagger in Java that predicts the parts of speech of a sequence of words using Hidden Markov Models and the Viterbi algorithm
- Tested on a set of over 30,000 words through the Brown Corpus with a 96.4% accuracy rate.

## SKILLS & AFFILIATIONS

**Technical:** Python, Java, Javascript, React/React-Native, Node/Express, Git, MongoDB, Ruby, Ruby on Rails, HTML/CSS, Figma, Maya

**Additional Activities:** Campus Tour Guide, Sexual Assault Peer Alliance, First-Year Trips Leader, Kappa Kappa Gamma Sorority

**Additional Interests:** Painting, Graphic Design, Animation, Illustration, Sustainable Fashion, Sexual Violence Prevention