

Annamira O'Toole

+1-617-710-0911 ♦ annamira@uname.net
annamira.github.io ♦ annamiraotoole.com

PROFILE

Enthusiastic gap year student interested in math, computer science, and economics. Seeking opportunities in research and industry. Able to thoroughly work well under pressure and get along with all ages. Passionate about scuba diving and competitive sailing.

EDUCATION

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| <i>Undergraduate Coursework (during high school)</i> | 2012 — 2018 | Harvard, Harvard Extension School, Tufts |
| <i>Cambridge Rindge and Latin High School</i> | Class of 2018 | 4.67 Weighted GPA |

COURSEWORK AND SKILLS

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| Mathematics | Through multivariable calculus, linear algebra, statistics Abstract algebra covering set, group, and ring theory |
| Science | Physics, chemistry, and biology |
| Social Science | Economics, game theory, comparative government Political philosophy, American literature |
| Programming Languages | Fluent in Java, Python, C++, and OCaml Experience with HTML, CSS, and Javascript |
| Practical | Unix and Linux command lines, \LaTeX , and Git/GitHub Mathematica and Jupyter Notebook Experience working and conducting research on an interdisciplinary team |
| Miscellaneous | CPR/AED/First Aid certified, research integrity training from Harvard |

WORK EXPERIENCE

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| Adjoint, Inc. | Boston, MA |
| <i>Engineering Intern</i> | August 2018 - Present |
| <ul style="list-style-type: none">– Developed an implementation of the SHA256 hashing algorithm in Haskell in the form of an arithmetic circuit to be compiled and used for cryptographic protocols.– Projects involved zero-knowledge proofs, Merkle trees, circuit compilers, and elliptic curve cryptography.– Collaborated remotely with engineers in London, UK.– Advisors: Dr. Stephen Diehl and Havell Rodrigues | |

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| Panama Jazz Festival | Boston Area |
| <i>International Volunteer</i> | August 2018 - Present |
| <ul style="list-style-type: none">– Developed, organized, and managed artists, schedules, and content on the event website and app.– Will travel to Panama City in January 2019 to teach in the festival's music therapy educational program. | |

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| MetroHacks | Boston Area |
| <i>Executive Director of 2017-18 Season, Current Board Member</i> | August 2017 - Present |
| <ul style="list-style-type: none">– Entirely student-run hackathon for New England high schoolers.– Formulated the project timeline, goals, and community outreach for a nine person organizational team.– Provided support for each sub-team: sponsorship, web design, logistics, and marketing.– Recruited, interviewed, and trained new team of volunteers. | |

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| Harvard Institute for Applied Computational Science | Cambridge, MA |
| <i>Research Intern</i> | February 2017 - August 2017 |
| <ul style="list-style-type: none">– Scraped data, implemented Gaussian process statistical models for Boston area air quality, and assisted in the creation of an educational web interface.– Collaborated on a five person team during the Harvard Data Science Research Experience for Undergraduates program.– Advisors: Dr. Pavlos Protopapas, Dr. Weiwei Pan | |

References and full course transcript available upon request