Lynnsey Martin

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Education

Northeastern University, Boston, MA *May 2021*

Honors candidate for Bachelor of Science in Computer Science, GPA: 3.9/4.0

Embedded Design, Fundamentals of Computer Science I and II, Logic and Computation, Algorithms and Data, Database Design

Skills

Programming: Python, JavaScript, HTML/CSS, Java, C++, MatLab
Software: SolidWorks, AutoCAD, Microsoft Excel, Linux/Unix, SQL
Languages: Spanish (Intermediate)

Work Experience

Northeastern University Action Lab, Research Assistant *September 2016 - present*

- Design 6+ coordination testing games in Javascript, HTML, and Python using Google App Engine (bit.ly/ActionLabGame).
- Process motion data from Qualysis 3D and recording motion data from videos for machine learning data sets.

NSF Research Experience for Undergraduates: Data-Driven Discovery, Research Assistant *June 2017 - August 2017*

- Implemented neural networks on GPU, decreasing time required to run networks to as little as 25% of earlier running times.
- Processed data and extracted features for UCF-101 (13000+ videos with 101 classifications) and HMDB51 (7000+ videoss with 51 classifications) datasets to improve performance on various models.
- Edited research papers, peer reviewed two IEEE journal submissions, designed research poster and presentation to report on project to professors, peers, and researchers at Northeastern University.

Applied Research Laboratories at The University of Texas: Austin, Apprenticeship Program *June 2016 - August 2016*

- Programmed decision tree models for supervised learning problems in Python and analyzed data patterns using Excel.
- Compiled final results from machine learning programs, designed project poster, and delivered presentation on project.

Additional Experience

Northeastern University College of Computer and Information Science, Teaching Assistant *September 2017 - Present*

- Grade student work and tutor for Discrete Structures (Fall 2017) and Fundamentals of Computer Science I (Spring 2018) on a team of students and faculty for 400+ students taking the courses.

Resident Student Association, Assistant National Communications Coordinator *September 2016 - Present*

- Design and oversee two programs per semester for 50+ students as Assistant Vice President of Logistics (Fall 2016 - Spring 2017).
- Lead a team of 20 volunteers to facilitate Husky Hunt, a 24 hour scavenger hunt, as Head of Logistics (Fall 2016).
- Plan, coordinate, and supervise more than 60 challenges for participants in Husky Hunt as Challenge Chair (Fall 2017).
- Plan and execute 10+ programs of different sizes and scopes as Co-Programming Chair for Homecoming Committee (Fall 2017).

Roxbury Rocks! at United South End Settlements, Volunteer *September 2016 - Present*

- Taught music to elementary student groups on a weekly basis, analyzed results of lessons, and researched development techniques.
- Tutored dozens of elementary students in math, writing, history, and science at United South End Settlements over two semesters.

Campus Pride, Campus Pride Index Intern *June 2017 - September 2017*

- Managed communications with hundreds of college campuses across the country for organization advertising and outreach efforts.
- Updated campus contact database and expanded potential contact pool to new programs.

Awards and Achievements

2017 Clinton Global Initiative University Team Codeathon Winner (Member)
2016-2017 Northeastern University College of Engineering Dean's List
2016 Northeastern University Scholars Program (awarded to top 1% of freshman applicants to Northeastern University)
2015 Texas Music Educators Association All-State Tenor Saxophone

Publications

Martin, Lynnsey. "Machine learning with decision tree ensembles." Science and Engineering Apprenticeship Program Reports, Summer 2016." Applied Research Laboratories, The University of Texas at Austin. (In Press)