HARRIS BUBALO

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GitHub: HarrisonBubbles ⬦ **Website:** https://harrisonbubbles.github.io/website/

EDUCATION

Northeastern University, Boston MA   *September 2020 – Present*
Khoury College of Computer Sciences
Candidate for a Bachelor of Science in Computer Science and Mathematics   *Expected May 2024*
Honors: Dean's List **GPA:** 3.961/4.0
Relevant Coursework:

 Fundamentals of Software Engineering | Algorithms & Data | Object-Oriented Design | Computer Systems | Database Design | Discrete Structures | Theory of Computation | Probability and Statistics | Linear Algebra | Dynamical Systems

Clubs: FirstByte | Oasis | NUSound | Artistry Magazine | Songwriting Club

TECHNICAL SKILLS

Languages: Python | JavaScript/TypeScript | Java | C/C++ | SQL | Dart | Rust | MATLAB
Software: Git | Jupyter | Docker/Kubernetes | Google Cloud Platform | pandas | React | Flutter | Firebase | Datadog

EXPERIENCE

Oasis Program Mentor   *January 2023 – Present*
Northeastern University, Boston, MA
- Guided students through team software projects as part of the Oasis project acceleration club at Northeastern
- Led presentations about Typescript, React, database design, and other app development fundamentals

Software Engineer Co-op, Machine Learning Platforms   *July 2022 – December 2022*
Wayfair, Boston, MA
- Introduced new API endpoints to extend functionality of feature store platform, improving self-serviceability and reducing number of subsequent support tickets
- Led end-to-end implementation efforts for improved feature validation using Airflow, mitigating effects of data drift in response to a large-scale data migration
- Published feature serving client to an internal Python package, further standardizing ML development at Wayfair

Fundamentals of Computer Science Teaching Assistant   *January 2021 – Present*
Khoury College of Computer Sciences, Boston, MA
- Hosted labs and office hours to help students understand fundamental computer science principles
- Graded assignments, quizzes, and exams in a timely manner

Program Alum   *July 2019*
MIT Beaver Works, Cambridge, MA
- Engaged in machine learning lectures given by Lincoln Lab researchers, particularly in context of medicine
- Utilized Python, pandas, and Scikit-learn to predict an NFL player's likelihood of developing CTE
- Presented findings at poster session at end of program, attended by hundreds of students and family members

PROJECTS

TikTok-inspired Music Discovery App   *December 2022 – Present*
- Mobile app that leverages bite-sized format of TikTok to offer users an efficient way to discover music
- Developed with Flutter and Firebase for a cohesive and scalable development experience

Oasis Distortion   *September – December 2021*
- Created a robust VST3 distortion plugin using C++ and the JUCE framework, as part of the Oasis project acceleration club at Northeastern University
- Presented stable release to Oasis members through a demonstration of its music-making capabilities

A Comparative Study of Boston's Approach to COVID-19   *March – April 2021*
- Processed COVID-19 and census data from various U.S. cities using Python and pandas library
- Discussed how pandemic exacerbated pre-existing problems in each city, as part of final presentation for the INSH 2102 course at Northeastern University

INTERESTS

Playing guitar, Reading philosophy, Attending local concerts, Music production, Fighting video games

References available upon request