Michael Belyaev

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Mathematics student looking for an internship combining mathematics and computer science.

EDUCATION

University of Edinburgh Sep. 2022 - Present
Mathematics *Averaging a first*

Relevant Coursework : Statistics (71%), Probability (91%), Introduction to Algorithms and Data Structures (80%), Foundations of Data Science (71%), Computing and Numerics (87%)

Balerno High School Aug. 2016 - June 2022
Advanced Highers: Mathematics (A*), Mathematics of Mechanics (A*), Physics (A), Computing Science (A)

PROGRAMMING SKILLS

- **Programming Languages:**
  Proficient: Python
  Experience with: R, Rust, Haskell, C++

- **Libraries and Tools:**
  Git, NumPy, Pandas, Matplotlib, Scikit-learn

EXPERIENCE

Demonstrator/Marker/Tutor
University of Edinburgh Sep. 2023 - Present
- Tutor for the courses Introduction to Computation and Introduction to Data Structures and Algorithms.
- Held weekly tutorials and marked coursework assignments.

HYPED Software Team
University of Edinburgh Hyperloop Team Sep. 2023 - Present
- **Navigation Subteam Member** — Sep. 2023 - Jan. 2024
- **Navigation Project Manager** — Jan. 2024 - Present
- Led a team responsible for estimating the state variables of the pod.
- Implemented the Kalman filter in C++ to combine accelerometer and Keyence sensor readings.
- Rewriting implementation in the Rust language.

School of Informatics Research Internship
University of Edinburgh Jun. 2024 - Present
- Researched dimensionality reduction and Locality Sensitive Hashing (LSH) for nearest neighbour search and wrote implementation in Python.
- Studying algorithmic spectral graph theory.

PROJECTS

Graph Visualisation Widget | *Rust*
- Coded an application in Rust for visualizing graphs.
- Implemented a forced-directed graph drawing technique.
- Partitioned the graph using the Fiedler vector.

AWARDS AND ACHIEVEMENTS

- Scottish Mathematical Challenge Gold in S5 and Silver in S6.
- Gold in the Senior UKMT.