ARNAV BHARGAVA

STUDENT

PERSONAL PROFILE

I am a first-year Computer Science student at the University of Edinburgh on track for a 1:1 degree. I am highly analytical, self-motivated and enthusiastic learner, with knowledge in Java, Haskell and Python. Interested in mathematics, algorithmic design and machine learning.

CONTACT INFORMATION

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Github:
https://github.com/arn25-lk

AWARDS & ACHIEVEMENTS

John Anderssons i Anderslöv Piano Stipendium - June 2020
Awarded scholarship for solo classical piano performance by the music faculty of Lund University.
DataFest 2020 Edinburgh - *Winner* Judges Pick
Analysed and visualised a dataset using R.
Huawei Seeds for the Future Alumni
Selected to participate in a one month long internship program offered by Huawei teaching core skills in 5G, AI, Cloud and enterprise.
Global Challenge Lab Hackathon - *Participant*
Invited to take part in a 10-day entrepreneurship program aimed at tackling healthcare related issues within a multicultural team.

PROJECTS

Matrix Operations in Haskell
-Wrote a library in Haskell that supports arithmetic, inverse, transpose operations on matrices.

Connect Four AI in Java
-As an extension of a course project, I implemented an AI heuristic using the mini-max algorithm with alpha-beta pruning for a game of Connect Four that can be played in the terminal.
-Gained experience in using the Model-View-Controller (MVC) design pattern in Java.

Double Pendulum Simulation in Haskell
-Made a simulation of a double Newtonian pendulum using the Gloss graphic library and OpenGL using Haskell.

ProjectFinder Android Application
-Entry for Hack the Burgh 7
-Aimed at students to find open-source projects to contribute to.
-Gained experience in Android SDK and XML

PROFESSIONAL SKILLS

Coding Languages
Java JDK8, Python 3, Haskell GHC 8.10.2, C++, R

Frameworks
VS Code, Eclipse, Vim, Git, Bash,
Linux, Windows, MS Office

Languages
English (Native), Hindi (Native), Swedish (Fluent), Spanish (Beginner)

EDUCATION

University of Edinburgh

BSc(Hons) AI and Computer Science, 2020-2024

-Introduction to Linear Algebra (SEM1) (Grade: A1)
-Introduction to Computation (SEM1) (Grade: A1)
-Introduction to Data Science (SEM1) (Grade: A2)
-Object Oriented Programming (SEM2) (Grade: A1)
-Calculus and Its Applications (SEM2) (Grade: A2)
-Proofs and Problem Solving (SEM2) (Grade: A1)

Katedralskolan Lund

Awarded 41 IB Points, 2018-2020

-*HL* Mathematics, Physics, Business
-*SL* Chemistry, English Lang & Lit, Swedish B

COURSES

2021 Machine Learning offered by Stanford University on Coursera

2021 Learn Python Programming Masterclass on Udemy

2020 Algorithms: Divide and Conquer algorithms, Randomized algorithms offered by Stanford University on Coursera in Java

2019 Python 3 Course 1: offered by Michigan State University on Coursera

2019 Mathematics for Machine learning: Linear Algebra offered by Imperial College London on Coursera