

Arman Jasuja

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EDUCATION

Johns Hopkins University

Baltimore, Maryland

Bachelor of Arts

May 2023

- Mathematics (Pure)
- Physics Minor

WORK EXPERIENCE

Data Scientist and Lead Software Developer

Dubai, United Arab Emirates

Sagata (Start-Up)

October 2023 - Present

- Wrote a proprietary Optimal Decision Tree algorithm for the company to detect health insurance Fraud, using genetic algorithms.
- Created a full-stack web application (currently hosted at sagata.pythonanywhere.com) that allows users to compete in a fantasy trading competition for a client.
- Designed, and implemented the MVP for the company's proprietary health insurance product, which was a desktop app.
- Optimized a cutting-edge MIP based OCT algorithm

Teaching Assistant

Baltimore, Maryland

Calculus I

January 2023 - May 2023

- Lead section lectures on calc I concepts, created and marked exams and quizzes.

Research Assistant

Baltimore, Maryland

Drichko Lab- Raman Scattering Group

February 2021 - January 2022

- Analyzed application of TIR to Raman Scattering for thinner materials and produced an undergraduate thesis paper.

Learning Assistant

Baltimore, Maryland

General Physics I

September 2021 - December 2021

- Trained students to think about solving mechanical problems in physics during section meetings, and marked quizzes.

Research Assistant

Baltimore, Maryland

CMS Cern Group- Tracker Alignment

September 2019 - December 2020

- Ran validation runs with Monte Carlo simulations with Professor Andrei Gritsan and team in tracker alignment with data obtained from CMS.

Research Intern

Delhi, India

Dr Lal Path Labs

June 2018 - July 2018

- Trained in chromosome analysis, karyotyping and FISH.

PROJECTS

- Finance- A full stack web application allowing users to run simulated stock trades with live updates from the Yahoo Finance API. (Tools- HTML, CSS, Bootstrap, Flask, Python)- See GitHub for more details
- Trained a Machine Learning model to predict house prices- can be seen on Kaggle: [handle armurox](https://www.kaggle.com/armurox/handle-armurox)
- Portfolio Tracker - A command line application programmed in python, which allows a user to test finance strategies, and observe the associated P&L metrics to evaluate the strategy. - See GitHub for more details.
- FoodApp- A web application that creates recipes for students using available ingredients- See GitHub for more details
- Traffic- Trained an AI to read recognize traffic signs. Implemented a convolutional neural network using TensorFlow- See GitHub for more details
- Tic-Tac-Toe- Implemented a classic adversarial search algorithm (minimax) in order to create an AI to play tic-tac-toe- See GitHub for more details
- Work on additional projects for Sagata are indicated above in the Work Experience section

COURSES

- CS50x- Harvard University's Introduction To Computer Science
- CS50P- Harvard CS50's Introduction To Python
- Akuna Capital Options 101
- Graph Theory (Network theory)- Solutions to interesting problems on Github
- Statistical Mechanics- Modeling and understanding stochastic processes
- Differential Equations
- Honors Linear Algebra
- Calculus 3- Multivariable
- Gateway Programming- Python

TECHNICAL SKILLS

- Competitive programming- Codeforces Handle: armurox. Current rating: 991, and solutions to problems on Github
- C
- Python
- SQL
- C++
- HTML, CSS, JavaScript, Flask, Django, React, JQuery (Web Programming)
- LATEX
- Git
- TensorFlow, scikit-learn, Gradient Boosting, SVMs, Linear Regression (Machine Learning, Deep Learning)
- Genetic Algorithms, Optimal Tree Classifiers
- Vercel, Pythonanywhere

LEADERSHIP & INVOLVEMENT

President

Baltimore, Maryland

Johns Hopkins Magical Arts Initiative

September 2020 - Present

- Wrote syllabus for magical arts initiative to spearhead a new way of teaching to members. Was then implemented and produced students with a confidence to perform.
- Organized Spring Fair and Spring Showcase, wrote script and main acts for the show
- Organized Student Involvement Fair as part of the initiative.
- Contacted and brought in Peter Wood (Baltimore Magician) to perform to Hopkins students and lecture to members.

ACHIEVEMENTS

- Dean's list- Spring 2021

INTERESTS

- Magic
- Music (Piano)
- Tennis
- Badminton
- Philosophy (like to catch up on philosophical readings in the summer, with a specific interest in epistemology and philosophy of mathematics)
- Sudoku

SKILLS

Bilingual- Fluent in English and Hindi

Teaching- Experience as a learning assistant in General Physics 1.

Good Work Ethic

Good negotiation skills

Ability to work with data and identify key trends

Good communication skills

Good presentational skills

Teamwork/Collaboration