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Shaan Yadav

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Education

Duke University August 2022 – Present
BSE: Double major in Computer Science, Electrical and Computer Engineering, concentration in AI & ML *Durham, NC, USA*
4.0 GPA | Dean's List with Distinction

Eton College September 2017 – June 2022
A* (highest grade) in Computer Science, Mathematics, Further Mathematics and Physics A-levels *Windsor, Berkshire, UK*
9 (highest grade) in Math, Physics, Bio, Chem, CS, English, Design, History, Geography, Spanish GCSEs
Oppidan Scholar | House Captain | President of Scientific Society | UKMT Sen. Math Challenge Gold

Experience

Singh Lab September 2023 – Present
Student Researcher *Duke University, NC, USA*
- Working under Dr Singh at the Singhlab at Duke - https://singhlab.net
- Currently familiarising myself with protein language models, to conduct research about predictions of protein interactions, drug interactions and designing antibodies.

Raiz Vertical Farms June 2023 – August 2023
Software Engineering Intern *Lisbon, Portugal*
- Collaborated directly with CTO to convert application from prototype to production
- Transferred app from obsolete technologies to Mantine v7, hosting on fly.io with staging and production environments; Connected environments to postgres SQL database; Refactored old React code into new environments

Palantir July 2022
Data Analyst Intern *London, UK*
- Worked at Palantir as a data analyst using their Foundry platform
- Analysed raw, incomplete UK wildfire data from various sources and used data to provide insights for UK fire department, such as how to most effectively distribute resources to combat wildfires; Presented findings in a non-technical, accessible manner

MelanomaScan September 2021 – March 2022
Project *Eton College, Windsor, UK*
- Developed iOS app to diagnose skin cancer using iphone cameras, and provide location and person specific cancer risk
- Full Stack development using OOP with Swift and XCode, created a user-friendly app utilising Convolutional Neural Networks, GPS & Camera hardware, API calls, Data cleaning & management
- Project demo: https://youtu.be/mePFA-zkgVY

TeensInAI March 2020 – January 2022
Course Developer and Teacher *London, UK*
- Hired by TeensInAI to develop course to teach an introduction to machine learning for teens
- Taught course to 60 students at a TeensInAI hackathon, 30 at Eton, and an additional 100 through recorded content
- Link to content: https://youtube.com/playlist?list=PLhH6nWDpggsH5EI8oKAXosorKVcH59tbE

BBC November 2019 – December 2019
Developer *London, UK*
- Won Mastercard TeensInAI hackathon with NewsPal - a fake news detection chrome extension
- Invited to work in BBC's blue room under Laura Ellis on fake news detection algorithms
- Worked with natural language processing models for text articles and voice assistants such as Google Home and Amazon Alexa

Vita-Sanare established March 2020
Charity for Amputees *West Champaran, India*
- Fund-raised £9,000 and carried out project to provide 200 amputees prosthetics in one of the most impoverished parts of India
- Partnered with Jaipur Foot charity to provide custom fit, durable prosthetic limbs to amputees
- Carried out surveys in person village to village to find amputees due to rural landscape, and held 4-day camp to provide amputees with their prosthetic limbs, helping amputees to learn to use and maintain the prosthetics

Technical Skills

Proficient – Python, Java, HTML/CSS, Swift (XCode), Github, Machine Learning theory, API usage, UX design, Object Oriented Programming, C, C++

Intermediate – PyTorch, Tensorflow, React, React Native, Javascript, SQL, Firebase

Additional Courses – Deep Learning Specialisation (deeplearning.ai), Introduction to Deep Learning with PyTorch (Meta AI), IBM QxQ Quantum Computing (IBM), The Feynman Lectures Vol I-II (Dr Richard Feynman)