RUFUS BEHR

r.behr.20@abdn.ac.uk < https://sufurelite.github.io

EDUCATION

University of Aberdoon	0000 0
University of Aberdeen	2020-2
BSc (Hons) in Computing Science & Mathematics	NA Merit Scholarship '20
Expected Degree Class: First Class Honours	Chancellor's List '2
(Ongoing) Thesis supervised by Dr. Ehud Reiter: Author Styled Text	Top Classics Awards '2
Generation in Latin fine-tuning Transformers and Large Language Models	

Relevant Coursework: Languages and Computability, Artificial Intelligence, Algorithmic Problem Solving, Intro to Data Management for Data Science, Linear Algebra I-II, Analysis I-IV, Complex Analysis, Mathematical Modelling, & Differential Equations

Activities: Bridge Club Secretary '21, '22

Fordham Preparatory School

High School Diploma

Received Two Classwide Awards: The School's First Recipient of Excellence in both Latin and Ancient Greek, & Excellence in Fordham University Coursework for my success in CISC 3060: Introduction to Robotics

RESEARCH

	Quadrat Interdisciplinary Research Internship	June 2022 - Present
	Unaergraauate Research Intern	Remote
•	Worked on applying Machine Learning to reduce localization errors for automated radiote animals in Colombia, the reults of which are being prepared for publication	elemetry systems to track
•	Using Python (PyTorch, Scikit, NumPy) I improved the initial multilateration error from over 150m to 60m	
	Rensselaer Polytechnic Institute https://devpost.com/software/ivyhacks	Sep. 2019 - Dec. 2019
	Undergraduate Researcher, for credit	Troy, NY

Undergraduate Researcher, for credit

- · Started Undergraduate Research Project, 'Aleph Naught', which aimed to simulate the playing style of a chess player given their historical games
- Culminated in a Proof of Concept that won 'Best Implementation and Potential for Growth' at IvyHacks, an online Hackathon co-hosted by Ivy League universities with 1500+ participants, in Oct. 2020.
- · Built the Frontend in Vue.JS, and both the model, a Binary Classifier that determines how likely a position would be played, and the Backend were written in Python using TensorFlow, NumPy, Scikit, and Flask.

EXPERIENCE

Goldman Sachs	June 2022 - Aug 2022
Full Stack Summer Analyst	$London, \ UK$
\cdot Worked on an internal web app, following a scrum methodology using Jira	

- · Created components for the front end in Typescript and React with 100% test coverage in Jest
- · Wrote the back end in Java using Springboot, deployed on AWS ECS Fargate, and rewrote the same functionality in Python, on AWS Lambda

ReSource Pro

Data Science Intern, paid

• Researched and applied machine learning models to Insurance Documents to automate laborious processes

· Developed three key models: one that can discern the type of insurance document provided currently used on thousands of documents daily, one that could determine the type of Acord Document File, and a proof of concept joint Part-Of-Speech Tagger and Neural Network Dependency Parser to generate Insurance Policy Document Summaries

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2014-18

Jun. 2018 - Dec. 2020 Qingdao, China & Remote

COMPETITIONS

eraCe (Competition) https://devpost.com/software/erace HackHarvard 2021	Oct. 2021 Remote
 Won 2nd Best Overall Hack Created a mobile application that tackles racial discrimination in the hiring process by more anonymously and equitably Developed the Frontend in React Native and the Backend in Python 	y allowing job seekers to apply
Developed the Frontend in React Rative and the Databala in Fyshon	
Chadvice (Competition) https://devpost.com/software/chadvice Sentiment & Opinion Mining Natural Language API Hackathon	Apr. 2021 - Jun. 2021 <i>Remote</i>
 Created an Android Application that, utilising Natural Language Processing and Mach of your dating app conversations in real-time, gauging their interest and the likelihoo Developed the Frontend in Java and the Backend in Python, hosted on Google Cloud 	ine Learning, provides analysis d of getting ghosted l
SaVaX (Competition) https://devpost.com/software/savax University of Cambridge's Hex Cambridge	Jan. 2021 Remote
\cdot Won People's Choice Award and the Wolfram Award	
\cdot Developed an App that addresses COVID-19 vaccine was tage using Vue.JS, MongoDB, and Google Maps AP \cdot	
Coronadvisor (Competition) https://devpost.com/software/coronadvisor Caltech's HackTech	Mar. 2020 Remote
\cdot Won Best COVID-19 Awareness & Prevention Hack and Best Use of Google Cloud	
rained an Artificial Neural Network and XGBoost Regressor, based on our engineered daily data from John opkins, to predict confirmed cases and deaths in given regions due to COVID 1 year into the future, visualised o	
· Used Pandas, Scikit, TensorFlow, Flask, arcGis, Google Maps Geolocation API, HTM	IL, CSS, and JavaScript
Check It (Competition) https://devpost.com/software/bigredhacks-jayhes Cornell's Big Red Hacks	Oct. 2018 Ithaca, NY
\cdot Won Best Technical Feat	
Guilt a plagiarism detector that analyses the writing style of a new essay and compares it to the writing style of the tudent that submitted it	
Built the Frontend as a C $\#$ WPF Application and applied NLP methodology in Python to create the model	
Google Code-In (Open Source Project) International Competition hosted by Google	Nov. 2016 - Jan. 2017 Remote
· Placed 8th internationally in 2016	
• Developed scripts for a chatbot, procedural world generation, and other in-game modulated based version of Minecraft, called Terasology, for the organization Moving Block	odifications for an open source as
Unite for Humanity Hackathon (Competition) Hosted by the United Nations	Apr. 2016 <i>NY</i> , <i>NY</i>
\cdot Won First Place	
\cdot Developed the Frontend for a platform, called Counteract, to detect and mitigate t media	threatening behavior on social

Parkinson's Artificial Intelligence Diagnosis (Competition)	Apr. 2016
Penn State App Competition	State College, PA

 $\cdot\,$ Placed 3rd out of 185 teams

 $\cdot\,$ Created an iOS application to diagnose Parkinson's disease based on audio features with an accuracy of 94% using TensorFlow, FLASK, and Swift

SKILLS AND ABILITIES

Proficient In	C++, C#, Java, Python, SQL, JavaScript (React & Vue.JS)
Other Languages Studied	Ancient Greek, Latin, Old English, Sindarin, & Mandarin
Extra-Curricular	Machine Learning Reading Group & Bridge Player for Scotland Juniors Team