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Objective

An up-and-coming exuberant engineering graduate, seeking an opportunity as a software developer in novel environments with special emphasis to algorithm design and machine learning incorporation to relevant areas for mutual growth and societal improvement.

Education

Degree
Amrita School of Engineering, Amrita Vishwa Vidyapeetham University, Coimbatore
Bachelor of Technology in Computer Science and Engineering (2017 – 2021)
CGPA: 9.22/10 (Sem. I – Sem. VII)

Higher Secondary Education
Delhi Public School, Navi Mumbai (2015 – 2017)
Central Board of Secondary Education (PCM + Comp. Sci.)
Marks: 92.2%

Secondary Education
Delhi Public School, Navi Mumbai (2013 – 2015)
Central Board of Secondary Education
CGPA: 10/10

Areas of Interest: Machine Learning, Algorithm Design

Experience

- **Microsoft IDC**, Microsoft, Hyderabad (Software Engineer Intern, May 2020 – Jul 2020): Worked in Azure India Live Migration Team (under Azure Compute IDC) to add, integrate and test "Pre-Copy of Resource Disk for Fast Stop Migrate". *Tools Used: C++, Virtual Disk Library, Windows Test Authoring and Execution Framework (TAEF), PowerShell, Azure VMs*

- **Cisco ThingQbator**, Amrita Vishwa Vidyapeetham University, Coimbatore (Maker @ ThingQbator, May 2019 - Jun 2019): Developed a wearable device that recognises and classifies human activity, with scope extension for legacy machinery. *Tools Used: deep learning (TensorFlow w/ Python), electronic circuit assembly for sensor data wireless transmission (MPU6050 w/ Arduino Nano), 3D printing of wearable enclosure (Fusion 360 w/ Fracktory Julia)*

Projects

- **Body Weight Estimation using 2D Image** (Sep 2020 – Present): A machine learning model for estimating body weight given face and/or full-body image of person.
  Tools Used: MediaPose, Dlib, TensorFlow, Python
- **Elinqo Leave Management System** (Jul 2019 – Sep 2019): A leave management mobile application for college students to apply leaves with acceptance based on faculty approval and time constraints of leave.
  Tools Used: Flutter (Dart), MySQL, NodeJS
- **Brain Tumour Segmentation** (Jul 2019 – Sep 2019): A script that processes MRI scan of brain and using various digital image processing algorithms, segments the tumour, if it exists.
  Tools Used: Digital Image Processing Toolbox, MATLAB
- **Graffeur Graphing Application** (Aug 2018 – Sep 2018): A full-fledged 2D graphing application for any univariate function, with GUI controls to view and save the graph, in the required zoomed/panned state. *(Java)*
- **Conway's Game of Life** (Jan 2017): A GUI based application to initialise and run Conway's Game of Life, the famous cellular automaton by John Conway, along with state snapshot and reload functionality. *(C++)*

Technical Qualifications

(***** verification links available at rohanposeidon.github.io/verify)

- **Deep Learning*** (Specialisation) by deeplearning.ai on Coursera
    - Neural Networks and Deep Learning
    - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

- o Structuring Machine Learning Projects
- o Convolutional Neural Networks
- o Sequence Models
- **Programming with Google Go*** (Specialisation) by University of California, Irvine on Coursera
  - o Getting Started with Go
  - o Functions, Methods, and Interfaces in Go
  - o Concurrency in Go
- **Full-Stack Web Development*** by The Hong Kong University of Science and Technology on Coursera
  - o Front-End Web UI Frameworks and Tools: Bootstrap 4
  - o Front-End Web Development with React
  - o Server-side Development with NodeJS, Express and MongoDB
- **Python Data Visualization*** by Rice University on Coursera
- aws CERTIFIED **Cloud Practitioner*** by Amazon
- **Microsoft Learning Paths***
  - o Introduction to machine learning with Python and Azure Notebooks
  - o Build AI solutions with Azure Machine Learning
  - o Azure for the Data Engineer
- Proficient in C/C++, Java, Python
- Familiar with Linux (Bash Scripting), Arduino, Oracle SQL, MATLAB (Digital Image Processing Toolbox)

Achievements

- Nationally ranked in Top 100 in **National Student Coding Contest, 2020** organised by ACM India Council
- Finalists (among the top 20 of 1104) of **D3code 2019**, hackathon organised by UST-Global
- Ranked 3rd in **Codemaster Season 2** (2017), inter-campus coding contest, organised by Amrita Vishwa Vidyapeetham University
- Received **Amritanidhi Scholarship** during pursuit of B. Tech. in Amrita
- Ranked 29,338 out of 1.18 million in **JEE Main, 2017**
- Received Gold Medal and Certificate of Zonal Excellence for securing International Rank - 97 and Zonal Rank - 9 in the 16th **National Cyber Olympiad (2nd Level), 2017**, organised by Science Olympiad Foundation
- Received Certificate of Excellence for securing Zonal Rank - 22 in the 16th **National Cyber Olympiad (1st Level), 2016** organised by Science Olympiad Foundation
- Received Letter of Appreciation from Smriti Irani, Former Minister of HRD for outstanding performance in **SSC Board Exam, 2015**
- Received Bronze Medal in **International French Language Olympiad, 2012** organised by Silverzone

Extra-Curricular Activities

- Received Certificate of Merit for securing 1st place in Instrumental Non-Percussion Solo (Keyboard), **Amritotsavam 2018** organised by Amrita Vishwa Vidyapeetham
- Received Certificate of Merit for securing 1st place in Group Instrumental, **Amritotsavam 2018** organised by Amrita Vishwa Vidyapeetham
- Executive Member of **Association of Students of Computer Science for Information Interchange (ASCII)** for 2018-2019 and 2019-2020
- Executive Member of **Computer Society of India, Amrita Chapter, 2019 - 2021**
- Quizmaster and Organiser of **ASCII Techwiz 2018**
- Team Leader for **Corporate Relations, Anokha 2019**
- Organised **MathOlympics, Anokha 2019**

Personal Details

- Date of Birth: 10 October, 1999
- Languages: Proficiency - English, French, Hindi, Sindhi; Familiarity - German, Malayalam
- Hobbies/Interests: playing piano, sci-fi media consumption, following latest technology