SHIVAM SAVANI

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Education

The University of Adelaide   Dec 2022

Bachelor of Computer Science (Advanced), GPA: 6.875 / 7
- NASA Space Robotics Challenge 2021 Participant   • Computer Science Club Member

Experience

Summer Research Intern – University of Adelaide   Dec 2020 - Current
- Assisted a professor on a project involving deep learning networks
- Learnt PyTorch to build Convolutional Neural Networks (CNNs) and utilized these networks to analyse wearable sensor data
- Developed a strong foundation for learning from sequence data using LSTM / GRU units

Highschool Mathematics Tutor – Part-time   Apr 2020 - Current
- Organised sessions to teach Specialist Mathematics with a pinch of my personal backstories
- Personalised tutoring for individual students by providing weekly progress reports and fortnightly tests

Projects

Terrorism Data Visualiser | Python   Nov 2020
- Developed a python module to parse through 90k+ terrorist incidents from 2012 to 2018 in .csv format
- The module was then used to analyse trends and fact-check some of major incidents in history
- The results and dynamic visualisations were built using Plotly and NumPy libraries in python

Sequence Game | Swift   Dec 2020
- Wrote an iOS App using Swift where user can tap on various buttons to get target sequence to win
- Devised a random generator system, used to generate level sequence and produce various colours with every click by user

Fight Arena | C++   Oct - Nov 2020
- Battle-like computer game where player must hit opponent's health to 0 to gain points for each round
- Game is modelled based on OOP design, includes polymorphism for different types of players and inheritance from parent classes. Runs in terminal with colours and power-ups
- Composed a custom C++ class for input validation to handle every possible disruptive input

Awards and Volunteering

Executive Dean's Recognition of Academic Excellence Award | 2020   UoA
- Awarded to the top 15% of students for exceptional academic achievement throughout their study

1st place for Creativity, Retro Game Hackathon 2020 | C++   Google Developer Clubs, Australia
- Snakoids | Combination of old snakes and asteroids game, where snake dodges asteroids to survive

Global Citizens Scholarship Recipient   UoA
- Received 30% reduction in tuition fees for my entire undergraduate degree for scoring 95.6% in Year 12

PASS (Peer Assisted Study Sessions) Leader | Maths IA and Matlab & C   Feb 2021 - Current
- Combined various study skills to facilitate students in developing independent learning styles

Volunteering
- Campus Tour Leader at O' Week Orientation Event, 2021 – University of Adelaide
- Event organiser at Social Sports Program by Adelaide University Sports Society
- First year representative for Computer Science School Open Day, 2020 - UoA

Languages

- **Proficient:** C++, C, Python, Java, Swift UI   **Familiar:** HTML/CSS, SVN, Android