

Shashank Singh shashank-singh.com

+60 1124 22 0748 | sshashank124@gmail.com | Kuala Lumpur, Malaysia

Interested in the field of Artificial Intelligence employing my experience in working with machine learning (pattern recognition) applications

Education

Georgia Institute of Technology (Aug '14 - Dec '17)

Major: B.S. Computer Engineering (Highest Honor) | Minor: CS - Computing and Intelligence | GPA: 3.76

Relevant Coursework: Machine Learning, Robotics and Perception, Intro to AI, Internetwork Security, Data Structures and Algorithms, Game AI, Advanced Computer Architecture, Advanced Programming Techniques

International School of Kuala Lumpur (Aug '10 - May '14)

IB Diploma: 42 | GPA: 3.87

Standardized Test Scores

GRE: (Verbal: 159, Quantitative: 168, Writing: 4.0)

SAT: 2300 (CR: 740, M: 790, WR: 770, Essay: 11)

SAT II: (Math 2: 800, Physics: 800, Chemistry: 770)

TOEFL: 108 (Reading: 24, Listening: 28, Speaking: 29, Writing: 27)

Skills & Abilities

Programming - Java (Android, JavaFX, Junit, Mockito), Python (Tensorflow, Numpy, Scikit-learn, OpenCV, App Engine), C/C++ (TCP/IP, Bluetooth), Linux

Work Experience

Android Development Intern - R&D - VMware AirWatch - 3 months

- Improved consistency, expandability, and maintainability of Application Control across various OEMs
- Created working proof-of-concept prototype for the support of the Agent app on new hardware

Teaching Assistant for OOP and Data Structures and Algorithms (CS 1332) - 2 years

- Taught recitations, held office hours, and wrote and graded homework
- Received average student feedback rating of 4.4 / 5

Tutor for Digital Design and Programming Hardware/Software Systems - 1 year

- Held help desk office hours and graded labs

Projects

EnerCage (Research Project, OpenCV, Tensorflow, Keras, Java, C++) - 2 years

- Implemented system for wireless behavior classification of a lab rat in a cage environment into 9 different categories
- Implemented a cross-platform GUI for a research project with capabilities for asynchronous networking with a Raspberry Pi and a Kinect sensor

HyTech Racing (Arduino, Raspberry Pi, Android App, CANBUS) - 1 year

- Programmed GaTech's electric racecar's pedal and brake control using Arduino and CANBUS protocol
- Implemented a dash mounted Android App display with live feedback on the racecar's diagnostics
- Participated in design competition against 40 other Universities at Formula Hybrid 2016

Energy Jackets (Django, Raspberry Pi, Analog Design) - 3 years

- Member of an independent, multi-disciplinary team of students that hosted an energy savings competition in one of the on-campus freshmen housing buildings
- Won and received funding from the Greenovation 2017 Fund at Georgia Tech
- Designed a monitoring system to collect live energy usage data from each of the floors in the building and log it to a remote database
- Provided statistics, updated daily, on the energy usage and comparative reduction for each of the floors through a live website

Cube Companion (Android App) - 4 months

- Created and published an elegant and resourceful Rubik's Cube app for Android

Received very positive feedback with a rating of 4.66/5 from 131 reviews and over 5,600 downloads

Awards and Honors

- Received Warren Batts VIP Innovation Award for "significant contribution" to the EnerCage research
- Received Book Award for Mathematics (given to 1 student in all the High School as chosen by a committee of HS Math Teachers)
- Completed 5 semesters on the "Dean's List"
- Completed one semester with "Faculty Honors"

Competitions

- Google Games 2017: *Ranked 1st place from over 20 teams*
- Georgia Tech Freshmen Hackathon 2015: *Ranked 3rd place from over 100 participants*
- HyTech Racing 2016: *Ranked 6th from 40 universities*