

# Fawwaz Ahamed

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## Summary

- **An All-Rounded person who has developed Holistically, across multiple disciplines**
  - I have competed in many disciplines, which includes in academics, the arts, technology, problem solving, etc.
- **Vast Track-Records of innovative ideation**
  - I hold pride for many innovative solutions that I proposed in competitions/tasks/projects which require the use of my problem-solving skills.
- **Well-Experienced in Human and Resource Management**
  - Recognised by external organisations, i.e., Singapore Red Cross Society and Debate Association (Singapore), for being a good team-player and being efficient & effective in organising/running various events.
- **Multifaceted Skill-Set and Experiences, across multiple disciplines**
  - Having being experienced in multiple aspects, having clinched victories in various events across disciplines, I have proven to be a diligent, self-motivated and a self-disciplined person, who shows adaptability in high-pressure scenarios. I strongly believe that I will be a great asset to any organisation.

## Current Credentials Held

Student, Victoria-Cedar Alliance Integrated Programme	[2021 - 2024]
Research Intern, Defence Science and Technology Agency (DSTA), Singapore	[2022]
Director's Award Recipient, Red Cross, Singapore	[2018]
Executive Member, Cultural Society, Victoria School	[2022]
Publicity and Outreach In-Charge, Debate & Oratorical Society, Victoria School	[2021 - 2022]
Member, Monitor's Council, Victoria School	[2021 - 2022]
Chairman, Class 4G, Victoria School	[2022]

## Education

Victoria Junior College (Victoria-Cedar Alliance IP)	[2023 – Now]
Victoria School Integrated Programme (Victoria-Cedar Alliance IP)	[2021 - 2022]
Ministry of Education (Singapore) Language Centre (3 <sup>rd</sup> Language: Arabic)	[2019 - 2022]
St. Andrews Secondary School	[2019 - 2020]

## Leadership Positions Held

<u>Victoria Junior College</u>	
[40 <sup>th</sup> Students Council], Councillor	[2023]

<b><u>Victoria School</u></b>	
[Cultural Society], <b>Executive Member</b>	[2022]
[CCA - Debate], <b>Publicity and Outreach In-Charge</b>	[2021 - 2022]
[Class – 4G], <b>Chairman</b>	[2022]
[Class – 3G], <b>Chairman</b>	[2021]
[Class Project], <b>Vice-Chairman</b>	[2021 & 2022]

<b><u>St. Andrew's Secondary School</u></b>	
[School], <b>Junior Leader</b>	[2019]
[Class - 1A], <b>Secretary</b>	[2019]

### Skill-Sets

<b><u>Computer</u></b>	
<b>Console Programming Languages</b>	C# (Console), Java, Python
<b>App Development Languages (Windows)</b>	C# (Windows Form)
<b>Web Development Languages (Frontend)</b>	HTML, JavaScript, CSS
<b>Web Development Languages (Backend)</b>	PHP, MySQL
<b>Experience in Utilities</b>	Microsoft Office (2013, 2019), Google Workplace Suite, Visual Studio (Basic, Community), Lego MindStorms, MySQL Database Manager (Windows & Linux), Oracle VM VirtualBox, DJI RoboMaster, WebMin/Virtualmin (Ubuntu Web Server Hosting Platform), PuTTY, MITRE CALDERA, Red Canary Invoke-Atomic, Amazon Web Service (Comprehend, Rekognise, S3 Storage)
<b>Experience in Operating Systems</b>	Windows (XP, 7, 8, 8.1, 10, 11, Server 2008), Linux (Ubuntu (20.07 LTS), Kali Linux, Red Hat – CentOS, ChromeOS [89 – 104]), Android (4, 5, 6, 7, 8, 9, 10, 11)

<b><u>Robotics</u></b>	
<b>Devices Used</b>	Lego MindStorms, MakeCode HaloCode, Micro:bit, DJI RoboMaster S1, DJI RoboMaster Engineer, DJI Tello Drones, Audrino Uno

<b>Personal Skills/Traits</b>	
<b>Leadership</b>	Have taken up many leadership roles, by nomination.
<b>Management</b>	Have organised and coordinated National Events with more than 800 participants from various schools in Singapore.
<b>Publicity</b>	Have hosted various school events, such as the School's Open House (2021 & 2022).  - Had been called to share about the school in the Open House Video (2021), and about school's IP Programme (2022).
<b>Innovative Problem Solver</b>	Have ideated and produced innovative and creative solutions ( <i>selected few</i> ):  - Autonomous Flight System  - Device for coordinating and strategizing combat in a war-field  - Phone User Interface that can be controlled hand-free, using simple facial gestures and expressions

### Competitions/Achievements/Prizes/Events

<b>[Scope of Event], Name of Event</b> <b>[My Role]</b>	<b>[Achievements]</b> <b>(Domain(s))</b> <b>[Year of Participation]</b>
[International], <b>International Mathematics Modelling Challenge 2023</b>  <i>[Project selected by the final round judges of IMMC(Singapore) to represent Singapore at the International round of IMMC 2023. This competition involves developing Mathematical Modelling and Computer Simulations, modelling &amp; simulations were developed using Python]</i>	[Representing Singapore]  (Human Resource Management, Computing & Programming, Robotics, Mathematics, Economics, Geography)  [2023]
[Poster Presentation & Live Demonstration], <b>Invited by DSTA to present my research paper at the YDSP@Congress 2023</b>  <i>[Invited by DSTA to present my research to the Senior Minister of State for Defence, Mr Heng Chee How]</i>	[Recognition]  [2023]
[National], <b>DSTA-AWS AI/ML Challenge 2023</b>  <i>[Participated in this competition. 2<sup>nd</sup> Runner Up]</i>	[2 <sup>nd</sup> Runner Up]  (AI & ML, Human Resource Management, Computing & Programming, Team Lead)  [2023]
[Debate Association], <b>Debate Association Debating Championships (DADC)</b>	[Organised National Event]

[As a student volunteer of the Debate Association (Singapore), <b>I organised, coordinated and managed a huge volume of participants</b> from many schools in Singapore in this National Level Debate Competition]	(Event Management) [2023]
[National], <b>Cyberthon 2023</b>  [Represented college in this national competition]	(Human Resource Management, Computing & Programming, Team Lead) [2023]
[Recognition for Achievements], <b>Victoria School Passionate Learner Award</b>  [Awarded to students who are recognised for their extensive interest, passion & achievements in subjects other than academics.]	[Recognition] [2022]
[Debate Association], <b>Primary School Debate Open (PSDO)</b>  [As a student volunteer of the Debate Association (Singapore), <b>I organised, coordinated and managed a huge volume of participants</b> from many schools in Singapore in this National Level Debate Competition]	[Organised National Event] (Event Management) [2022]
[Debate Association], <b>Singapore Secondary School Debating Championships (SSSDC)</b>  [As a student volunteer of the Debate Association (Singapore), <b>I organised, coordinated and managed a huge volume of participants</b> from many schools in Singapore in this National Level Debate Competition]	[Organised National Event] (Event Management) [2022]
[Debate Association], <b>Debate Association Debating Championships (DADC)</b>  [As a student volunteer of the Debate Association (Singapore), <b>I organised, coordinated and managed a huge volume of participants</b> from many schools in Singapore in this National Level Debate Competition]	[Organised National Event] (Event Management) [2022]
[School], <b>Organised Cultural Camp</b>  [I, along with my committee, was responsible for planning and executing the camp for approx. 200 students]	[Organised School Event] (Human Resource Management, Material Resource Management, Event Management) [2022]
[Research Intern], <b>Research @YDSP DSTA (NDA-Classified Project)</b>  [Selected as a research intern by DSTA to work on a classified project on Enhancing Cybersecurity. DSTA has published my research paper in a Journal]	[Research Intern] (Computing & Programming) [2022]
[International], <b>Qiskit Quantum Explorer</b> , organized by IBM Quantum [Gaining an understanding of quantum computing and its applications]	(Computing) [2022 - 2023]
[National], <b>AI Singapore Outreach Programme</b>  [Participant of AI Student Outreach Programme; developing AI & ML skills]	(Computing & Programming, AI & ML) [2022 - 2023]
[National, CCA (Debate & Oratorical Society)], <b>Wits and Words Primary School Debate Competition Adjudication Panel</b>	[Appointed as Adjudicator] (Adjudication)

[Trained and appointed as adjudicator for the above Debate Competition]	[2022]
[School], <b>Open House</b> [Called to share about the School's Integrated Programme to the Primary 6 Students, and their parents, in an event that hosted external visitors]	(Public Presentation) [2022]
[National], <b>National Olympiad in Informatics</b> [Represented School in National Competition organised by the National University of Singapore (NUS)]	(Computing & Programming) [2022]
[National], <b>RoboMaster Youth Championships</b> [Represented School in National Competition organised by DJI. 3 <sup>rd</sup> Runner Up]	[3 <sup>rd</sup> Runner Up] (Robotics) [2022]
[National], <b>DSTA BrainHack: Today I Learned – AI Workshop</b> [Represented School in this national event organised by the Defence Science and Technology Agency (DSTA) Singapore]	(AI & ML) [2022]
[National], <b>DSTA BrainHack: SpaceCube</b> [Represented School in this national event organised by the Defence Science and Technology Agency (DSTA) Singapore]	(Computing & Programming) [2022]
[National], <b>Singapore Junior Physics Olympiad</b> [Represented School in this National Competition. Achieved Honourable Mention]	[Honourable Mention] (Science) [2022]
[National], <b>Second Language Speech Competition</b> , organized by Raffles Institution [Selected to represent the School after noticing natural talent in Speech]	(Oratory) [2022]
[School], <b>Social Innovation Project</b> [Developing a Web App with my Team. The App was is designed to be a companion for Secondary School Students. Features developed for the app include Tutorial Videos, Practice Questions, designed to be competitive, Task Tracker, which schedules the day for the student after identifying & evaluating his preferences & abilities, etc.]	(Human Resource Management, Innovative Problem Solving, Team Lead, Social Service) [2022]
[School], <b>History Research Thesis</b> [Wrote a Research Thesis on disease outbreaks and their effects in the United States in the 21 <sup>st</sup> century]	(Research, Academics) [2022]
[School], <b>Physics School Project</b> [Designed, programmed and built a Smart Home System equipped with Security Features, Automated Door Locking System, Safety Features and Automated Room Occupancy Detection, which selects the Fan Speed in the Room and controls lighting. This was an effort to address issues related to home security and saving energy]	(Human Resource Management, Material Resource Management, Computing & Programming, Robotics, Team Lead) [2022]

[School], <b>E-Open House</b> <i>[Member of the committee In-Charge of Victoria School's E-Open House]</i>	[Committee Member] [2021]
[National], <b>Singapore Mathematics Olympiad</b> <i>[Represented School in this National Competition]</i>	(Mathematics) [2021]
[National], <b>Singapore Junior Physics Olympiad</b> <i>[Represented School in this National Competition]</i>	(Science) [2021]
[National], <b>Singapore Junior Chemistry Olympiad</b> <i>[Represented School in this National Competition]</i>	(Science) [2021]
[National], <b>Young Defence Scientists Programme Science &amp; Technology Camp</b> , organised by the Defence Science and Technology Agency (DSTA), Singapore <i>[Designed a product that can be used for coordinating and strategizing combat in a war-field using High Definition, topographical 3D map, which provides all information about the location and possible movement of every object on the war-field, formed by LiDAR, Infrared Heat Sensors and Cameras on Land Vehicles, Aircrafts and AR goggles on the worn by the troops on the ground]</i>	(Human Resource Management, AI & ML, Innovative Problem Solving, Team Lead) [2021]
[National, CCA (Debate & Oratorical Society)], <b>Hwa Yi Invitational Debate Championships</b> <i>[Selected to represent in National Debate Competition]</i>	(Oratory) [2021]
[National, CCA (Robotics)], <b>Virtual Robotics Competition</b> <i>[1<sup>st</sup> Runner Up]</i>	[1 <sup>st</sup> Runner Up] (Computing & Programming, Robotics) [2020]
[National, CCA (Robotics)], <b>Nanyang Polytechnic Science and Technology Challenge – Category 2: AI and 5G Vision</b> <i>[Designed an Autonomous Flight System, which allows for aircrafts to fly by their self, using Artificial Intelligence and 5G Connectivity. 2<sup>nd</sup> Runner Up]</i>	[2 <sup>nd</sup> Runner Up] (Human Resource Management, AI & ML, Innovative Problem Solving, Team Lead) [2020]
[National], <b>Prudential Young Trail Blazers</b> <i>[Designed a system for the Homeless to keep their belongings safe using cloud technology. Among the Finalist of the competition]</i>	[Finalist] (Human Resource Management, Innovative Problem Solving, Team Lead, Social Service) [2020]
[International, CCA (Robotics)], <b>First Lego League</b> <i>[Represented School in International Robotics Competition which involves ground-up engineering of robot, and task-based programming]</i>	(Human Resource Management, Innovative Problem Solving, Robotics) [2020]

<p>[National, CCA (Robotics)], <b>StriTwise Final Challenge – Augmented Reality</b></p> <p><i>[Designed programmed and built a Phone User Interface that can be controlled hand-free, using simple facial gestures and expressions. Over the night competition, where I and my team worked 34 hours continuously]</i></p>	<p>(Human Resource Management, AI &amp; ML, Innovative Problem Solving, Computing &amp; Programming, Team Lead)</p> <p>[2020]</p>
<p>[National, CCA (Robotics)], <b>IDE (Innovate, Design &amp; Engineering) Series Virtual Robotics Competition</b></p> <p><i>[Represented school in National Competition]</i></p>	<p>(Computing &amp; Programming, Robotics)</p> <p>[2020]</p>
<p>[National], <b>Shell Global Solutions International (NXplorers)</b></p> <p><i>[Represented school in this national competition. Created a Sustainable Food Source]</i></p>	<p>(Innovative Problem Solving)</p> <p>[2020]</p>
<p>[National], <b>Singapore Junior Water Prize</b></p> <p><i>[Designed a pocket-sized Passive Water Filtration System, targeted at regions where drinking water is scarce]</i></p>	<p>(Human Resource Management, Innovative Problem Solving, Team Lead)</p> <p>[2020]</p>
<p>[National], <b>Innovation Programme (IVP)</b></p> <p><i>[Designed and made a power source that can safely, effectively and efficiently supply power to Island-like exhibitions]</i></p>	<p>(Human Resource Management, Innovative Problem Solving, Team Lead)</p> <p>[2020]</p>
<p>[National], <b>Design Thinking &amp; Innovative Boot Camp</b></p> <p><i>[Designed a solution to reduce the use of Plastics one-time-use items in our daily lives using technology]</i></p>	<p>(Human Resource Management, Innovative Problem Solving, Team Lead)</p> <p>[2020]</p>
<p>[International], <b>University of New South Wales Science Competition</b></p> <p><i>[Represented School in International Competition. Outstanding Award]</i></p>	<p>[Outstanding Award]</p> <p>(Science)</p> <p>[2019]</p>
<p>[International], <b>Australian Mathematics Competition</b></p> <p><i>[Represented School in International Competition. Credit Award]</i></p>	<p>[Credit Award]</p> <p>(Mathematics)</p> <p>[2019]</p>
<p>[National], <b>Edusave Scholarship</b></p> <p><i>[Scholarship awarded by the Ministry of Education Singapore for achieving excellent academic performance and demonstrating good conduct]</i></p>	<p>[Scholarship]</p> <p>[2019]</p>
<p>[National], <b>Singapore Youth Festival – Music Festival</b></p>	<p>[Recognition Award]</p> <p>(Arts [Music])</p>

<i>[Represented School in National Competition. Composed an original music piece with team. Won Recognition award]</i>	[2019]
<p>[National, CCA (Robotics)], <b>Nanyang Polytechnic Science and Technology Challenge - Category 3: Intelligent Innovator's Fair</b></p> <p><i>[Designed, programmed and made a smart room-occupancy detector. 1<sup>st</sup> Runner Up for above category &amp; 1<sup>st</sup> Runner up for overall]</i></p>	<p>[1<sup>st</sup> Runner Up]</p> <p>(Human Resource Management, Computing &amp; Programming, Innovative Problem Solving, Team Lead)</p> <p>[2019]</p>
<p>[National], <b>Singapore Mathematics Olympiad</b></p> <p><i>[Represented School]</i></p>	<p>(Mathematics)</p> <p>[2019]</p>
<p>[National], <b>Chips @ Schools Infineon</b></p> <p><i>[Designed a solution that can allow Artificial Intelligence to help us in our daily lives]</i></p>	<p>(Human Resource Management, AI &amp; ML, Innovative Problem Solving, Team Lead)</p> <p>[2019]</p>
<p>{National], <b>Science Centre Micro:bit Challenge</b></p> <p><i>[Designed, programmed and made a computer-controlled bridge that is resilient to harsh weather conditions]</i></p>	<p>(Human Resource Management, Robotics, Innovative Problem Solving, Team Lead)</p> <p>[2019]</p>
<p>[National], <b>Tamil Language Writing Competition</b>, organized by Raffles Institution</p> <p><i>[Selected by Tamil Teacher to represent the School after noticing natural talent in narrative writing]</i></p>	<p>[Selected by Teacher]</p> <p>(Academics)</p> <p>[2019]</p>