

GARV SHAH

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EDUCATION

Caulfield Grammar School - Wheelers Hill 90% Academic Scholarship (Received AUD 38,540 p.a.) Jan 2019 - Nov 2024

- Triple Colours Re-Awarded & Gold Certificate of Excellence (highest award level) for Academics, Music (+Service), Debating (+Service), Publications, Cheer Squad, Public Speaking (+Service) & Community Service.
- Involved in music/theatre (part of 9 ensembles, 9 productions) & tennis, table-tennis, soccer, badminton, rock-climbing; helped raise ~\$12k over 5 years for charity concert; co-created musical w/ 111 participants
- President and administrator of school [maths club](#) and programming society, [CGSP](#). Created school Maths Captain role; [built app](#) w/ wkly problems, 120 users; taught 20 student classes & made comps; increased membership by 450%.
- Debating captain; led 98 students in state-wide program & made wkly workshops; coordinated 5 comps & increased participation by 350%; awarded school 'Best Speaker' 3x along with 'Swannie' for best speaker in region and grade.
- Member of committee, house-captain & vice-captain; led team of 6 for Digital Bulletin Board project.

WORK EXPERIENCE

Junior Engineers & Innovate Technology Robotics Academy *Teacher* Dec 2022 - Oct 2023 // Mar 2022 - Jun 2022

- Worked w/ young students to build robotics/programming skills e.g. with VEX IQ as past national championship winner.

Self Employed *Freelance Programmer, VCE Tutor* NP Logistics, Verdis Government, etc. | May 2021 - Present

- Earned \$11k+ from client work; 7 apps on stores w/ 10k+ installs. Also tutored 100+ hours for Yr12 VCE students.

CSIRO *Student Internship* Sep 2022 - Oct 2022

- Shadowed researchers across 5 fields (Software, Titanium Alloy 3D Printing, Electron Microscopy, Protein Synthesis & Bio Tech) e.g. Dr Helmut Thissen/Dr John Page; interpreted Aus Telescope National Facility data using algorithmic analysis.

PROJECTS

2cousins (Initiative under my non-profit Aporia, ABN: 87127315891) *Founder/CEO* Flutter, Firebase

Led 18 intl volunteers to teach 200+ students from underprivileged backgrounds weekly; raised ~\$6k for rural dev; nominated for 3 social impact awards including 7NEWS Young Achiever Saward Dawson Social Impact Award (\$1000 value).

The NOVA System *Founder/CEO* Flutter, REST APIs, Firebase, Node.js

Created system to mimic live cryptocurrency transactions; workshops for 300+ students on financial education; negotiated \$25k VC investment for implementation into intl IB curriculum before closure due to provider pricing changes.

CaulfieldSync Next.js, REST APIs, iCal

Developed API for student interoperability over school backend (created calendar integration & 4 peer apps, 100+ users); reported and mitigated 6 vulnerabilities with CGS IT team. Founded 1st comp club for pro bono projects on community issues

NP Logistics *Freelance Contractor* Flutter, Firebase, Node.js

Enterprise order/employee management solution; 15+ orders weekly w/ live tracking to transition to digital platform.

RESEARCH

Applications of Traveling Salesperson Problem Held-Karp, Simulated Annealing | Jun 2022 - Aug 2023

Conducted informal research as passion project, comparing exact vs heuristic implementations w/ time complexity analyses.

AWARDS

Apple WWDC 2021 Scholarship Award *App Development* Apple Inc. | Jun 2021

One of 300 global students awarded in the Swift Student Challenge, sponsored to attend the Worldwide Developer Conference.

IMMC Award of Meritorious Achievement *Statistical & Algorithmic Analysis* ACER | May 2022

Placed 2nd in Australia for modelling most efficient way to board planes, proceeding to the intl finals out of 58 global finalists.

Non-Trivial Fellow *Research* Non-Trivial | Jul 2024

Chosen from 3500+ global applicants as 1 of 200 for CS research on applications of computability theory in CAPTCHAs.

Kwong Lee Dow Young Scholar *Leadership & Academic Excellence* Melbourne University | Nov 2022

Chosen from 1500+ applicants for general excellence. Independently started a student community "Green" w/ 150+ members.

AMC Prize Award *Mathematics* Australian Maths Trust | Oct 2021

Awarded the AMC Prize Award for being in the top 0.3% of students in the Australian Maths Competition.

VOLUNTARY WORK

VicSRC Executive Committee Member, National Student Voice Council Member VicSRC | Oct 2023 - Present

Worked with national/state ministers on policy reform; organised state 'Congress' w/ 100+ ppl and achieved ~\$23k profit; helped create 10-year state priorities for Victorian Department of Education.

English and Computing/Design Teacher Balyam (Bass) Children Home | Jun 2022 - Mar 2024

300+ hours volunteering teaching orphans in India, leading to completion of 2 high school diplomas with university entrance.

SKILLS & INTERESTS

Programming Languages: Flutter/Dart, Swift, JavaScript, Python, HTML, CSS, TypeScript

Software and Tools: Adobe Premiere Pro, Adobe After Effects, GitHub, Node.js, Firebase

Languages: Fluent in English, Hindi and Gujarati

Other Interests: Music lover, drummer for my band "Paradox" with published music. Hobbies include video editing and 3D modelling, created tv show for my school. Also love traveling, tutoring and reading books!