

GARV SHAH

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EDUCATION

- Caulfield Grammar School - Wheelers Hill** (Full Academic Scholarship, 99.50 ATAR) Jan 2019 - Nov 2024
- 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 weekly workshops; coordinated 5 comps & increased participation by 350%; awarded school 'Best Speaker' 3x along with 'Swannie' for best speaker in region and grade.
 - 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.
 - 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.
- The University of Melbourne** Jan 2023 - Current
- Completed University of Melbourne Extension Program Maths with H1 (First Class Honours) in high-school.
 - Currently undertaking the Bachelor of Science (Computing & Software Systems) with a Concurrent Diploma in Maths.

PROFESSIONAL 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.
- 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.
- VicSRC Executive Committee Member, National Student Voice Council Member** VicSRC | Oct 2023 - Nov 2024
- 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.
- Self Employed Freelance Programmer** NP Logistics, Shaw FP, Verdis Government, etc. | May 2021 - Present
- Earned \$11k+ from client work; 7 apps on stores w/ 20k+ installs. Operating systems for 6 small businesses.
- Axiom Education Co-founder, Partner** December 2024 - Present
- Co-founder of education start-up based in Melbourne, garnered over 400 hours of teaching and tutoring experience.

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 and got 2 students into uni; nominated for 3 social impact awards including 7NEWS Young Achiever Award Dawson 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 Independent 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.

SKILLS & INTERESTS

- Programming Languages: Flutter/Dart, Swift, JavaScript, Python, HTML, CSS, TypeScript
- Software and Tools: Adobe Premiere Pro, Adobe After Effects, GitHub, Docker, Latex, 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!