GARV SHAH

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EDUCATION

The University of Melbourne (B-SCI Computing & Software Systems, 92.50 WAM)   Jan 2024 - Current

- Completed University of Melbourne Extension Program Maths with H1 (First Class Honours) in high-school.
- Also studying concurrent diploma in Mathematical Sciences, specialising in Discrete Maths and Operations Research.

Caulfield Grammar School - Wheelers Hill (VCE, 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/ weekly 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%; conferred school 'Best Speaker' 3x along with 'Swannie' for best speaker in region and grade.
- Engaged 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-directed musical w/ 111 participants.
- Highest awards for Academics, Music, Debating, Publications, Cheer Squad, Public Speaking & Community Service.

PROFESSIONAL EXPERIENCE

Axiom Education *Co-founder, Partner, Information and Operations Officer*   Dec 2024 - Present
- Founded education start-up based in Melbourne, garnering over 400 hours of teaching experience.

Self Employed *Freelance Programmer*   NP Logistics, Shaw FP, Verdis Government, etc. | May 2021 - Present
- Earned $11k+ from client work; 7 applications on stores w/ 20k+ installs. Operating systems for 6 small businesses.

VicSRC & **National Student Voice Council** *Executive Committee Member*   VicSRC | Oct 2023 - Nov 2024
- Liaised with national/state ministers on policy reform; organised state 'Congress' w/ 100+ ppl and achieved ∼$23k profit; helped develop 10-year state priorities for Victorian Department of Education.

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.

Junior Engineers & **Innovate Technology Robotics Academy** *Teacher*   Dec 2022 - Oct 2023 // Mar 2022 - Jun 2022
- Tutored young students, building robotics/programming skills e.g. with VEX IQ as past national championship winner.

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 Saward Dawson Award ($1000 value).

The NOVA System *Founder/CEO*   Flutter, REST APIs, Firebase, Node.js
Built 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 applications, 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, learning and reading books!