Udai Relan

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Education

Apr 2012 – May 2026	**High School Diploma,** *Vasant Valley School* Grade 12: Physics, Chemistry, Math, Computer Science, English AISSE (CBSE) grade: 93.8% Tech & Library Council	New Delhi

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Professional Experience

Jun 2024 – Present	**Relling (YC S25),** *Founding Engineer* Relling raised $5m @ $45m valuation from YCombinator, Salesforce, Paul Graham Trust, Garage Capital, Lerer Hippeau and others. Built large-scale multimodal data pipelines (video, LiDAR, IMU, tactile) for robotics and AR world models. Designed low-latency synchronization and annotation infrastructure enabling sub-5 ms alignment across 500 + hours of sensor data.	San Francisco/Remote
Nov 2023 – Jun 2024	**TraqCheck,** *Software Engineer* Developed backend systems for an AI-powered background verification platform that automates employee screening processes. Built API endpoints and database architectures to handle verification requests at scale, reducing manual processing time by enabling instant data validation across multiple verification sources.	Los Angeles/Remote
Feb 2025 – Jul 2025	**Independent Research under Prof. Simarjeet Saini,** *University of Waterloo* Developed AI chatbot using OpenCV and TensorFlow for non-contact patient symptom analysis. Assisted Prof. Saini for researching optimal models on electronic medical records, physiological monitoring and and facial micro-expressions for delirium patients.	Waterloo, Canada
Feb 2022 – Jan 2024	**Meavana,** *Product & Software Engineer* Led product strategy and engineering initiatives that scaled Monthly Active Users from 300 to 90,000+. Developed marketing campaigns, built product features, and architected infrastructure to support exponential user growth. Reported directly to CEO.	Gurgaon, India
Sep 2023 – Aug 2024	**TKS (The Knowledge Society),** *Scholar* Elite teen accelerator program. Unicorn Scholarship recipient (given to 0.2% applicants). Built and pitched technical projects to senior executives from CIBC, Walmart. Conducted research and built AI/ML projects during the Focus program, collaborating with mentors from NVIDIA and Microsoft.	Toronto/Remote
Apr 2021 – Aug 2021	**Vigyaan Prasar, Government of India,** *Trainee* Completed intensive training bootcamp in shortwave radio technology and communications research with Department of Science and Technology (Government of India) under Dr. Baruah	New Delhi, India

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Awards

2024	**IBM Future Tech Coding Olympiad,** *IBM* Gold Medal, Distinction. Given to top 25 students out of 165,000 global participants	
2023	**TKS Unicorn Scholarship,** *The Knowledge Society* Scholarship given to 0.2% applicants for outstanding achievements at the time of admission	
2024	**American Invitational Mathematics Examination (AIME),** *Mathematical Association of America* Qualified and participated in invite-only olympiad and scored 9/15	
2024	**American Mathematics Competition 12 (AMC12),** *Mathematical Association of America* National Rank #49 (India)	
2024	**American Mathematics Competition 10 (AMC10),** *Mathematical Association of America* National Rank #36 (India), Excellence	
2022	**American Mathematics Competition 8 (AMC8),** *Mathematical Association of America* National Rank #18 (India)	

2021	**Canada Jay Mathematical Competition (CJMC),** *Canadian Mathematical Society*
	Performance with Honours
2022	**Best Wicket Keeper,** *Wello Academy*
	Awarded Best Wicket Keeper Award under Peter Wellings: certified international coach and retired England national cricketer (ECB Level III qualification)
2020	**Beaver Computing Challenge (BCC),** *University of Waterloo*
	Distinction (top 25%)

Leadership

2024 – Present	**Tech Council,** *Vasant Valley School*	New Delhi, India
	Member of School Tech Council for 2 years, helping lead initiatives for improving our school community through tech.	
2018 – Present	**Varsity Cricket,** *Vasant Valley School*	New Delhi, India
	Represented school as the primary wicket keeper for over 8 years. Played in nation-wide competitions such as the Major R.K. Von Goldstein competition, securing first place in 2023 and 2025.	
2022 – Present	**Competitive Coding Team Captain,** *Vasant Valley School*	New Delhi, India
	Lead school's Competitive Coding team for over 3 years, securing positions in national competitions such as TECHVVIZ	
2024 – Present	**Teaching Assistant,** *Vasant Valley School*	New Delhi, India
	Taught computer science and problem-solving to junior students and the school's Computer Science Club, mentoring them in Python and foundational programming concepts.	
2021 – 2021	**Ambassador,** *Avishkaar*	New Delhi, India
	Worked with a STEM start-up that designs robotics kits and is now selling worldwide. Designed digital campaigns for promoting coding and robotics reaching over 2m viewers	

Projects

Feb 2025 – Jul 2025	**AI detection of Delirium in Patients**
	Using OpenCV, built and trained AI models through TensorFlow to recognise non-contact based symptoms without human intervening.
Sep 2024 – Jan 2025	**Wharton Global Investment Competition,** *Wharton, University of Pennsylvania*
	Team Leader, Wharton High School Investment Competition: Led 6-member school team managing diversified equity portfolio. Conducted fundamental and technical analysis using quantitative algorithms for price prediction. Pitched investment theses for stock selections based on data-driven research.
Oct 2024 – Jan 2025	**Trash Tag,** *Waste Management System*
	Developed a program for students to find and report garbage around our school campus to receive redeemable points. Built a backend API for teachers and the sanitation department within school, along with a frontend for students to click pictures and report trash.
Dec 2024 – Mar 2025	**SMS Based Weather Predictions for Farmers**
	Planned and developed a SMS based app for rural farmers without internet connectivity to receive alerts on their basic mobile phones for extreme weather alerts for better crop management for a negligible cost. OpenWeather API for access to realtime data and Twilio to send and receive alerts. Over 1200 sign ups over 7 months
Nov 2023 – Jan 2024	**Refined Amazon Alexa,** *TKS*
	In partnership with Amazon, lead a team to develop a refined voice agent using the Alexa API for the elderly to help them track medications and assist them specifically in their day to day life.
Mar 2024 – May 2024	**AI Aggregator**
	Built project to use Anthropic, OpenAI, Grok, Cohere, Deepseek and Qwen models through a single interface, instead of needing to pay for multiple subscriptions. Achieved faster response time than through these providers' flagship websites. Over 25m monthly tokens processed.
Jun 2025 – Present	**Joint Tracking**
	Developed OpenCV-based library for real-time body and hand tracking, enabling gesture recognition for AR/VR applications and robotics.