

Alex Shibu

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Building AI systems that help people make better decisions. Studying Physics and Computer Science at the U of Toronto. From AI voice agents for SMBs to modeling uncertainty at Technion, I explore how computation meets human judgment.

SKILLS

Languages / Frameworks: Python, JavaScript, React, Flask, SQL, Git
AI / Infra: OpenAI API, prompt engineering, Stable Diffusion fine-tuning, Google Cloud TTS, vector search, Twilio
Product / Growth: Content virality, user validation, Cold Outreach, A/B testing, workshops/demos
Tools: Figma, Notion, Google Ads/Analytics, Adobe Suite, SEO for LLMs

EDUCATION

University of Toronto

Bachelor of Science, Physics and Computer Science

Expected 2028

EXPERIENCE

Avalonn

Toronto, ON

Co-founder — Voice Agents for SMBs

Jan 2025 – Present

- Avalonn is a 24/7 voice agent that answers common inquiries in under 8 s, books jobs and quotes with automatic CRM updates, and escalates emergencies via SMS, helping small businesses recover roughly \$78 per missed call on average. Built using *React + Flask + ElevenLabs + OpenAI + Twilio*.
- Found early stage traction through customer interviews, live demos and onboarding local service businesses in plumbing, HVAC, and retail, integrating into their existing workflows.
- Received \$25k in AWS credits, participated in DMZ Basecamp and featured in UofT Centre for Entrepreneurship founder showcases.

Perplexity

Toronto, ON

Campus Strategist

Dec 2024 – Sep 2025

- Onboarded 300+ students and shared over \$6K in Perplexity Pro credits through demos, showcases and events tailored for aggressive student adoption goals alongside student strategists across campuses.
- Created easyHacks.org, a 30-hour hackathon with 170+ participants from all over the world with Perplexity directly integrated to increase retention and demonstrate the value proposition.

Physics Inspired Drilling Simulator (PhiDrillSim)

Calgary, AB (Remote)

Technical Project Lead, Part-time

Jun 2025 – Aug 2025

- Mentored directly by founder Dr. Etjaie to understand and model the physics of oilfield drilling systems in MATLAB, contributing to simulation tools for vibration, torque/drag, and well control analysis.
- Created a technical map of VR/XR adoption across mining, oil & gas, energy, and manufacturing producing actionable insights that shaped pilot proposals and partnership outreach.
- Mapped the Canadian XR ecosystem by identifying potential partners, training bodies, and innovation funders such as NORCAT, Sask Polytech, Energy Safety Canada and Alberta Innovates.

Angloville

Krakow & Warsaw, Poland

Program Mentor(Volunteer)

Jul 2025 – Aug 2025

- Led students in daily conversations, mentoring them in startup frameworks, pitch fundamentals through conversational sessions and small-group mentoring, and activities to strengthen English speaking confidence and creative thinking.

Technion — Israel Institute of Technology

Haifa, Israel

Research Intern - Info-Gap Decision Theory

Jun 2024 – Aug 2024

- Worked on info-gap decision theory, focusing on economic and financial decision-making using robustness and opportuneness models under deep uncertainty.

- Collaborated with Professor Yakov Ben-Haim to develop and refine decision models that address the lack of probabilistic data in problems across policy, finance, and credit assessment.
- Created info-gap models that evaluate Seed and Series A startups for venture capital firms, enhancing decision-making robustness and windfall outcomes to a projected 15% for high-risk investments.

The Knowledge Society (TKS)

Toronto, ON

Strategic Consulting Fellow(CIBC, Interac, BenchSci & Mastercard Foundation)

Aug 2022 – Jan 2024

- Worked with a 4-person team to develop strategic solutions to problems faced by 10 million Ethiopian coffee farmers, proposing 5.6M jobs based on agricultural data and stakeholder input.
- Worked to increase Gen Z adoption of CIBC projecting up to 77% increase in Gen Z adoption of CIBC through prototype user testing and survey analysis.
- Built an internal Slack AI (BenchBot) prototype to streamline HR/business communications and modeled a \$4.5M annual savings scenario that CIBC stakeholders adopted as an internal estimate.
- Granted \$4,000 as funds for various projects, via Enterprise Toronto and CanGap and pitched at 20+ networking events and conferences across Canada.

PROJECTS

- **EasyHacks — Hackathon, Frontend, Ops, Community:** Hosted global hackathon sparked by an accidental UBC nwhacks rejection. Grew to 10-person team, 170+ beginners from 7+ countries, \$8K in prizes.
- **LUMA — React, Flask, Cohere, GCloud TTS, pydub:** Built generative-AI meditation app with neural voice, ultra-low-latency audio mixing. Submitted to GenAI Genesis 2025. GitHub
- **BioBlox — Stable Diffusion:** Developed a 2-click AI system for professional-quality profile images, serving 50+ users and fine-tuned on 10–12 samples.
- **Legacy iPhone 4 Revival — iOS 6, Jailbreak, Cydia:** Restored full usability for an iOS 7 iPhone 4 with jailbreak to iOS 6 and fixed services. Fully documented for the community.
- **Ethereum Trend Analysis — Technical Analysis, Full-stack, Web3:** Ran deep-dive technical analysis on Ethereum price trends, built sheets regression models, published insights and project video for public walkthrough.
- **Cuddle — K-means Clustering, Figma:** Built an AI-powered sleep-music generator using clustering for personalized audio; Figma prototype/hackathon finalist.
- **CIBC Rewards (Figma) — Figma, UX Design:** Designed a consulting prototype for CIBC Rewards, modeling user engagement and projecting lift.
- **Ethiopian Coffee Strategy (TKS) — Economics, Stakeholder Research:** Developed agri-center model projecting 5.6M jobs and a 285% profit increase for Ethiopian farmers by 2030 based on export and yield data.
- **Circus Clounz NFT — Solidity, Discord:** Led a 4-person NFT team, built portfolio to \$100K+, partnered/dropped NFTs and learned Solidity—missed PMF, gained deep crypto-native skills.
- **Breakthrough Junior Challenge — Physics, Quantum, AI Frontier:** Top 14% global finalist for the challenge, explaining quantum computing fundamentals, superposition, entanglement, and John Bell's Theorem.

PROGRAMS & FELLOWSHIPS

Y Combinator — AI Startup School (2025): Two-day intensive workshop in San Francisco on building and shipping with AI, alongside 2,000 of the top CS undergrads, grad students

Villars Institute — VIP-e (2025): Immersive global fellowship on Systems Thinking and Ecopreneurship in the Swiss Alps to develop scalable impact ventures

Canadian Gap Year Association — Impact Fellowship & Scholar (2023–2024): 3-month fellowship and micro-grant awarded to travel to Bangalore and launch Coachmi.co.

University of Austin (UATX) — Forbidden Courses (2023): Focus in “Science and Christianity,” completed pre-course work, but couldn't join in-person seminar due to visa constraints.

Interests: Long city runs, Formula 1 engineering & telemetry, filmmaking, startup culture, systems thinking and solving the world's biggest problems, web3, Malayalam films, mapping every coffee shop in Toronto, drones, fixing old hardware.