Suraj Bansal

surajbansal.ca
bansalsuraj03@gmail.com
github.com/Suraj-Bansal
linkedin.com/in/suraj-bansal/

EDUCATION

Bayview Secondary School *Sep. 2017 - Present*
International Baccalaureate Diploma **Grade 12 Average: 96%**

- **Relevant Courses -** Chemistry (HL), Economics (HL), English (HL), Biology (SL), Calculus (SL), French (SL), Theories of Knowledge (SL), Extended Essay (Computer Science): Quantum cryptography and encryption systems
- **Activities and Societies** - DECA and FBLA Trainer, Public Speaking Junior Executive, Student Council Grade Representative

RESEARCH EXPERIENCE

The Pugh Lab, Princess Margaret Cancer Centre, *Research Intern* | Toronto, ON *Oct. 2020 - Present*

- Creating data curation tools for CReSCENT (crescent.cloud) — a containerized, web-based, pipeline execution engine for standardized analysis of single-cell RNA sequencing data to support clinical workflows

The Dick Lab, Princess Margaret Cancer Centre, *Student Researcher* | Toronto, ON *Sep. 2020 - Present*

- Analyzed single-cell RNA-sequencing data to quantitatively assess drug effectiveness and identify potential therapeutic combinations in Acute Myeloid Leukemia hierarchies

The Grover Lab, St. Michael's Research Centre, *Research Volunteer* | Toronto, ON *Jun. 2019 - Aug. 2019*

- Assisted with research on the transfer of endoscopic skills with an endoscopic simulation curriculum using EndoVR (CAE Healthcare) — a high-fidelity interventional virtual reality endoscopic simulator

STARTUP VENTURES

Ryde AI, *Project Lead and Co-Founder* | Toronto, ON *Apr. 2020 - Present*

- Self-driving software, leveraging Bluetooth to interface vehicle diagnostics with a smartphone application for under $1,000
- Zappos (Amazon) Venture Challenge Finalist and Sparkteen Accelerator Finalist

Synbiolic, *Software Developer and Project Lead* | Toronto, ON *Dec. 2019 - Apr. 2020*

- Client-facing app using probabilistic deep learning and policy approximation to generate molecules, and retrosynthesis pathways to synthesize them to produce novel drug-ready molecules (Microsoft Imagine Cup North American Finalist)

LidLess, *Co-Founder* | Vancouver, BC *Jul. 2019 - Aug. 2019*

- Prototyped an environmentally friendly, tri-silicone coffee lid with mobile banking integration for Vancouver-based cafés
- Presented to prospective investors and university faculty at University of British Columbia's SHAD Cup, receiving First Place

CONSULTING PROJECTS

Kidogo, *Project Consultant* | Nairobi, KE *Feb. 2020 - Apr. 2020*

- Created an innovation plan to increase mamapreneur profits by 43% and reduce childhood malnutrition with community sensitization workshops, sack farming pilot programs, and strategic partnership contracts with Aga Khan Museum

Sidewalk Labs (Google), *Quayside Project Consultant* | Toronto, ON *Nov. 2019 - Feb. 2020*

- Created an innovation plan to reduce household expenditures through a sharing economy digital infrastructure that monetizes personal assets (selected from 50 teams to present to C-suite at Sidewalk Labs headquarters)

LEADERSHIP AND VOLUNTEERING EXPERIENCE

YRDSB Student Senate, *Prime Minister* | York Region, ON *Sep. 2018 - Present*

- Secured $35,000 in funding and sponsorships to launch YRDSB's largest mental health conference and monthly general assemblies attended by students from 33 secondary schools (increased event attendance from 20 to 1,300 across 3 years)

Richmond Hill Mayor's Youth Action Committee, *Director of Logistics* | Richmond Hill, ON *Sep. 2016 - Present*

- Coordinated 5 annual, city-wide events to promote community involvement, procuring 300 attendees
- Received the Richmond Hill Youth Volunteer Achievement Award

TEDxYouth Toronto, *Youth Co-Chair* | Toronto, ON *May. 2018 - Nov. 2019*

- Sourced speakers (Olympic medalists, world performers, Shark Tank Investors, MasterChef Champions) and sponsorships (Western , RBC, Shopify, UofT), procuring $15,000, and coordinated marketing strategies, procuring 1,000+ applications

SKILLS

Languages and Libraries: Python, JavaScript, R, HTML, CSS, Keras, Tensorflow, Pandas, Scikit-learn, NumPy, Scanpy