
Education

University of Toronto – 3.5 Major G.P.A

September 2017 – May 2021

- Bachelor of Science – Specialist in Computer Science, Minor in Mathematics

Skills and Languages

<i>Proficient (7-10k+ lines):</i>	• Java	• JavaScript	• React, Redux	• Python	• HTML/CSS, Git
<i>Familiar (1-3k lines):</i>	• C++	• NodeJS	• Express	• MongoDB	• WebSocket

Experience

Intel (San Jose, CA office) – Software Engineering Intern

May 2019 – Present

- Studied the vast architecture of Intel's DDR5 memory device (**200+ pages of technical readings**), and then modified the existing hardware code to take connections from a software model
- Developed and integrated a **C++ model** that tracks metrics like time-latency for read/write requests, empowering 30+ hardware IP engineers by letting them see how the design is performing
- Noticed the time investment for understanding Intel's novel system, and currently spearheading the initiative to create a "getting started" tutorial, hoping to improve the time required to onboard the project by at least two-fold

University of Toronto – Teaching Assistant for CSC165

January 2019 – April 2019

- Selected as an excellent communicator to grade schoolwork and answer questions for over 800 students in UofT's 'Mathematics for Computer Science' course
- Managed an online course forum, and over the span of four months, **personally answered over 450 questions**, writing **over 60 personalized 100+ word solutions**, despite being a full-time student taking five courses

Highlighted Projects (See <http://sidgupta.ca> for details)

Knowtworthy – Co-founder & Full Stack Developer

November 2017 – Present

- Engineered the **full-stack** of a meetings productivity tool from scratch, with laying out new ideas, building web-pages & servers, and **testing features with over 150 real users** to optimize UX/UI
- Designed feature-rich **web pages** in **React/Redux** for user sign-on, a file system, and an interactive 'meetings' document
- Wrote **back-end server** endpoints in **Node** that interact with a MongoDB database to efficiently process app requests

*Sentiment, JavaScript using **React, Redux, Node***

August 2018

- Collaborated to develop an app that visualizes the sentiment (irritation / dispute levels) of each member in a conversation
- Set up a pipeline that streams audio in real-time to a back-end, and also built webpages that visualize the conversation sentiment & update in real-time to API requests

Awards and Recognition

- Built Knowtworthy at a University of Toronto start-up accelerator (The Entrepreneurship Hatchery); placed against the top 14 teams in the annual "Demo Day" competition and **won 2nd place, winning \$10,000 in company funding**
- Nominated for UofT's "**Best Computer Science TA**" award after receiving outstanding recognition from the students
- **Won 1st place out of over 65** submitted projects at Toronto's largest summer hackathon after pitching to hundreds