

## Education

University of Toronto – 3.6 Major G.P.A

September 2017 – April 2021

- Bachelor of Science – Double Major: Computer Science and Cognitive Science, Minor in Mathematics
- Enriched Theory of Comp. (CSC240) • Enriched Multivariable Calculus (MAT237) • Computer Organization (CSC258)
- Enriched Linear Algebra (MAT240) • Enriched Mathematical Statistics (STA257) • Software Design (CSC207)

## Skills and Languages

<i>Proficient:</i>	• Java	• Python	• JavaScript	• React, Redux	• HTML/CSS	• Git
<i>Familiar:</i>	• NodeJS	• Express	• MongoDB	• WebSocket	• Socket.io	• Firebase

## Experience

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 100 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
- Member of a University of Toronto start-up accelerator (The Entrepreneurship Hatchery); placed against the top 14 teams in the annual “Demo Day” competition and **won 2<sup>nd</sup> place, winning \$10,000 in company funding**

University of Toronto – Web Developer for Courseography

January 2018 – April 2018

- Redesigned the implementation of an existing codebase to use ReactJS – significantly improving the code organization of an open-source project seen by many active contributors

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

Orion Data – JavaScript using React, Redux, Firebase

September 2018

- Created a web app that analyzes the facial emotion of a user watching a video, and then recommends new videos for the viewer, as well as provides analytics to the content creator to show how his/her audience feels when watching
- Designed the video-sharing platform in React/Redux with functionality from open source A.I services and the YouTube API
- Engineered the system to stream media from a user’s webcam in real-time, as well as store the results online in Firebase

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
- Won 1st place out of over 65 submitted projects** at Toronto’s largest summer hackathon after pitching to hundreds

AutoNote, Python using Microsoft Computer Vision A.P.I

November 2017

- Worked with two teammates to develop a machine learning program that generates notes from a whiteboard video
- Wrote algorithms that would parse and store the frames of a video, store results given from the computer vision API, and determine the points in a video when the whiteboard was most full
- Winner of **Best Use of Project Management** award and **Wolfram One** award; placed in top 15 hacks