SIDHARTH SUDARSAN

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PROFILE

An aspiring software engineer, photographer, designer and a leader channeling his passion into making a difference. Avid learner and a fan of software fundamentals who focuses on clean design. Inherently inquisitive thinker who grasps new skills and concepts quickly. Fluent in English, Malayalam and Hindi.

EDUCATION

Lassonde School of Engineering | York University
Software Engineering, B.Eng. | 2018 - present
Lassonde Outstanding International Student Award recipient

Technion - Israel Institute of Technology
Startup Entrepreneurship | May 2019
Under the guidance of Prof. Shlomo Maital

SKILLS

Computer Languages

Bash, C, C#, Java, JavaScript, HTML, CSS, Python

Technical Tools

Node.js, GraphQL, MongoDB, Vue.js, Firebase, Unity, Git, Jest, JUnit, Gradle, LaTeX

Design, Photo and Film

Adobe **|** Photoshop, Lightroom, Illustrator, Premiere Pro

RELEVANT COURSEWORK

Computational Thinking | *MATLAB*
Advanced Object Oriented Programming | *Java*
Computer Architecture | *Verilog, RISC V*
Software Tools & Embedded Systems | *bash, C*
Fundamentals of Data Structures
Software Design
Logic for Computer Science
Electrical Circuits
Applied Multivariate & Vector Calculus
Professional Engineering Practice

WORK EXPERIENCE

Augmented Urban Space Modeling Lab | *Research Assistant*
Lassonde School of Engineering | April 2020 - present

Carrying out research on a module of the Intelligent Systems for Sustainable Urban Mobility (ISSUM) project under Dr. Gunho Sohn. Developing an Augmented Reality-based indoor navigation and visual cognition assistant for the visually impaired. The application is built using *Microsoft's HoloLens and Mixed Reality Toolkit* on *Unity* game engine. The 3D models and spatial scans of the campus environment was utilized. Also built the interface for a 3D virtual environment made on *Cesium.js* using 3D and BIM models.

Dr Car | *Co-founder and Back-end Engineer*
August 2020 - present

Co-founded a startup with a team of seven, reinventing how car owners book, service, and track their car repairs driven by a deep rooted desire to address the hassle associated with car care and servicing. Designing and building the back-end server for the product. Building a *Node.js GraphQL* API using *Apollo* and *Express* as the server and *MongoDB* as our NoSQL data layer.

PROJECTS

Aawaaz Portal
Vue.js, Firebase

Built a minimal learning management system with a team of three people for a private tutoring company based in India. The system has essential features like assignment portal, grades management, file sharing and chat for ease of communication between students, teachers and admins of the institute. The system was built on *Vue.js* with a *Firebase* back-end.

e-volve *(Technion 2019)*

The Technion-Lassonde course is a three-week intensive entrepreneurial training program engaging industry professionals and entrepreneurs who share their startup experiences. Researched problems in the current situation and surveyed significant users to verify the problem. Won the title of "Most Environmentally Valued Startup" for e-volve, a startup innovating in the field of electronic waste disposal by making the waste collection process convenient for users.

VennEver
Java, JavaFX, Gradle

Developed a Venn Diagram-based desktop application with a team of four people over the course of a semester. The application allows the user to create and customize venn diagrams to visually represent various types of data sets. The software is developed using the Java GUI library *JavaFX*, version control system *Git*, the build tool *Gradle* and *CircleCI* for CI/CD. Application is unit and function tested with *JUnit*.

VOLUNTEER EXPERIENCE

Vice President of Media
Lassonde Student Government | *April 2019 - present*

Facilitate to satisfy the media related needs of the student council of Lassonde School of Engineering and its initiatives. Help establish Lassonde Student Government's brand identity and create digital content for outreach. Hire and manage a creative team consisting of a graphic designer, web developer and video editor.

Lead Organizer
Elle Hacks 2019 | *December 2018 - February 2019*

Responsible for handling sponsorship and all logistical aspects of Canada's largest all-female student-run hackathon. Managed a team of volunteers to ensure smooth operation of the 36 hour event. Incorporated new methods using QR codes and cloud based services to make registration and communication efficient. Established partnerships with several companies as sponsors and raised $10,000.