SIDHARTH SUDARSAN

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PROFILE

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

EXPERIENCE

- **Augmented Urban Space Modeling Lab**
  RESEARCH ASSISTANT — YORK UNIVERSITY
  April 2020 — present

  Carrying out research on a module of the **ISSUM** project under Dr. Gunho Sohn. Developed an MVP for an AR-based indoor navigation and visual cognition assistant for the visually impaired — `HoloAssist`. Built on Microsoft HoloLens using the Mixed Reality Toolkit and the Unity game engine, 3D models and spatial scans of the campus environment were utilized. Currently developing a crowd simulator for the YorkU campus for research on pedestrian comfort analysis and effective social distancing protocols.

- **Dr Car**
  BACK-END DEVELOPER
  August 2020 - March 2021

  Worked on a startup with a team of six, 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, building and deploying 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.

EDUCATION

- **B. Eng. Software Engineering**
  LASSONDE SCHOOL OF ENGINEERING — *York University*
  2018 — present

- **Startup Entrepreneurship**
  TECHNION — *Israel Institute of Technology*
  May 2019

RELEVANT COURSEWORK

Advanced Object Oriented Programming — `Java`

Computer Architecture — `Verilog, RISC V`

Software Tools Embedded Systems — `bash, C`

Fundamentals of Data Structures

Logic for Computer Science

Software Design

Operating System Fundamentals — `C`

System Specification & Refinement — `Event-B`

Applied Multivariate Vector Calculus

Professional Engineering Practice

SKILLS

- **Computer Languages**
  `Bash, C, C, Java, JavaScript, HTML, CSS, Python`

- **Technologies**
  `Node.js, GraphQL, MongoDB, Vue.js, Git, CI/CD, Firebase, Unity, Jest,` LaTeX

- **Design, Photo & Film**
  `Adobe | Photoshop, Lightroom, Premiere Pro`

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.

- **https://sidharth.me**
  Personal Server
  Configured Nginx as a web server. Secured server with `GPG` key-based login, `UFW` firewall configuration and `fail2ban` brute-force blocker. Configured a mail server with `Postfix`, `Dovecot`, `SpamAssassin` and `OpenDKIM`. Self-hosted `Bitwarden` password manager and `Wireguard VPN` server in containers. Deploy and run a `Tor middle relay` to donate bandwidth to the Tor network.

- **VennEver**
  Java, CI
  Developed a Java desktop application with a team of four for coursework. 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`, `Git`, build tool `Gradle` and `CircleCI` for continuous integration. Application is unit and function tested with `JUnit`.

VOLUNTEER

- **Lassonde Student Government**
  VICE PRESIDENT OF MEDIA
  April 2019 — March 2020

  Student council for Lassonde School of Engineering.

- **ElleHacks 2019**
  VICE PRESIDENT OF MEDIA
  December 2018 — March 2019

  Canada's largest all-female student-run hackathon.

INTERESTS

| Photo/Film | Football | Problem Solving | Open Source | Linux |