SIDHARTH SUDARSAN

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PROFILE

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

EXPERIENCE

- **Qii AI** | *May 2021 — present*
  AUGMENTED REALITY DEVELOPMENT INTERN
  Developing an AR-based remote industrial inspection application to support Qii AI's software-based drone inspection workflow. Leveraging *Azure Remote Rendering* on HoloLens to render high quality 3D assets from the Qii AI platform.

- **AUSM Lab** | *May 2020 — April 2021*
  RESEARCH ASSISTANT — YORK UNIVERSITY
  Carrying out research under Dr. Gunho Sohn. Developed an MVP for an AR-based indoor navigation and visual cognition assistant for the visually impaired. Built on Microsoft HoloLens, 3D models and spatial scans of the YorkU campus were utilized. Developed a crowd simulator for the YorkU campus for research on pedestrian comfort analysis and effective social distancing protocols.

- **Dr Car** | *August 2020 — March 2021*
  BACK-END DEVELOPER
  Worked on a startup with a team of six, reinventing how car owners book, service, and track their car repairs. Designing, building and deploying the back-end server for the product. Built a `Node.js` `GraphQL` API using `Apollo` and `Express` as the server and `MongoDB` as our NoSQL data layer.

EDUCATION

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

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

RELEVANT COURSEWORK

Advanced Object Oriented Programming — `Java`

Fundamentals of Data Structures

Design and Analysis of Algorithms

Computer Network Protocols and Applications

Computer Architecture — `Verilog, RISC V`

Operating System Fundamentals — `C`

Software Design

Introduction to Computer Security

Digital Logic Design

System Specification & Refinement — `Event-B`

Software Engineering Testing

SKILLS

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

- **Technologies**
  `Git, Node.js, GraphQL, MongoDB, Vue.js, CI/CD, Azure, 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 Administration`
  Configure and manage Nginx as a web server. Secured server with `GPG` key-based login, `UFW` firewall configuration and `fail2ban` brute-force blocker. Configure and manage 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** | *April 2019 — March 2020*
  VICE PRESIDENT OF MEDIA
  Student council for Lassonde School of Engineering.

- **ElleHacks 2019** | *December 2018 — March 2019*
  LEAD ORGANIZER
  Canada's largest all-female student-run hackathon.

INTERESTS

Cars · Photo/Film · Problem Solving · Free Software · Linux