

# SIDHARTH SUDARSAN

🌐 [sidharth.me](https://sidharth.me) | ✉ [hi@sidharth.me](mailto:hi@sidharth.me) | 💬 [sidoverflow](https://sidoverflow.com) | 📄 [in/sidharthsudarsan](https://in/sidharthsudarsan)

## PROFILE

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Software Engineer with 2+ years of experience, seeking full-time roles focusing on Cloud Infrastructure, DevOps, SRE, Networking and Security.

## EDUCATION

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- **B. Eng. Spec. Hons. Software Engineering** | *LASSONDE SCHOOL OF ENGINEERING — York University* 2018 — 2023  
*Security Stream*  
**Relevant Coursework:** DS&A, Advanced OOP, OS, Computer Architecture, Software Design, Networking, Security, Cryptography  
**Activities:** VP at Lassonde Student Council, Lead Organizer for ElleHacks hackathon, Organizer for Hult Prize Regionals
- **Startup Entrepreneurship** | *TECHNION — Israel Institute of Technology* May 2019  
A four-week experiential learning program focused on building entrepreneurial and self-discovery skills at Technion, visiting startups, incubators and founders across Israel. Developed and pitched a startup plan to venture capitalists which won an award.

## EXPERIENCE

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- **Qii.AI** | *CLOUD ENGINEER* May 2022 — present  
Design and implement a multi-cloud architecture for compute/GPU workloads, databases, storage, caching and networking. Carried out cloud migration of all the company services and switched to production. Set up auto-scalable infrastructure optimizing for best cost and performance along with logging, monitoring and tracing.
- **Qii.AI** | *AUGMENTED REALITY DEVELOPMENT INTERN* May 2021 — April 2022  
Designed and developed an AR-based remote industrial inspection application to support the company's software-based drone inspection workflow. Leveraged *Azure Remote Rendering* on the HoloLens to render high quality 3D assets from the Qii platform.
- **AUSM Lab** | *RESEARCH ASSISTANT — YORK UNIVERSITY* May 2020 — April 2021  
Carried 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** | *BACK-END ENGINEER* August 2020 — March 2021  
Worked on a startup with a team of six, reinventing how car owners book, service, and track their car repairs. Designed, built and deployed the back-end services. Built a `Node.js` GraphQL API using Express server and MongoDB as the NoSQL data layer.

## SKILLS

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- **Computer Languages:** Bash, C, C#, Java, JavaScript, HTML, CSS, Python
- **Technologies:** Azure, CI/CD, Docker, GraphQL, Kubernetes, MongoDB, Node.js, Redis, Terraform, Unity
- **Design, Photo & Film:** Adobe | Photoshop, Lightroom, Premiere Pro

## PROJECTS

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- **Home Lab and Self Hosting** | *Docker, Linux, Nginx, Proxmox, Prometheus, Grafana*  
Configure and manage a virtual private server with several services. Secured 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 among other services. Deploy and run a Tor middle relay to donate bandwidth to the Tor network. Build and manage a home-lab NAS Server running TrueNAS.
- **ShopUnicorn Store** | *React, Node.js, Express, MongoDB*  
Design, implement, test and deploy an e-commerce application that supports customers and administrators. The back-end is well-documented, built with microservices and an API gateway based on *Clean Architecture* by Robert Martin for modularity and maintainability. All the services were containerized and deployed behind an Nginx server.
- **Secure Help Desk** | *Node.js, Socket.IO, Identity Server, THC Hydra, Wfuzz*  
Develop a help-desk web application that allows communication for online support with a team of four. Chat was implemented using sockets on a `Node.js` server. Authorization and session management were implemented using Ory Identity Server. Attack test cases for password cracking, SQL injection, Cross-Site Request Forgery (CSRF), Cross-Site Scripting (XSS) and OWASP ZAP tests were performed.