Sayan Naskar

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EDUCATION

IIT Kharagpur Kharagpur, West Bengal, India

Dual Degree (B.Tech + M.Tech)

Computer Science and Engineering

DEVELOPER SKILLS

Domains
DevOps & Infrastructure • Full-Stack Web Development •
Linux Administration

Programming Languages
Golang • Python • Javascript • HTML5 / CSS3 • C / C++ •
SQL • Java • Bash • PowerShell

Technologies
Docker • Kubernetes • Azure • Vagrant

Frameworks Libs
React JS • Vue JS • GraphQL • MongoDB • Kubebuilder

Communication Languages
English • Bengali • Hindi

CERTIFICATIONS

Cisco Certified Entry Networking Technician
(CCENT)

Cisco Certified Network Associate Routing and
Switching (CCNA)

COURSEWORK

Computer Science

Software Engineering • Database Management Systems •
Algorithms • Operating Systems • Computer Networks •
Intelligent Game Design • Complex Networks • Social
Computing • Computer Organisation & Architecture •
Switching Circuits & Logic Design • Symbolic Logic •
Principles of Programming Languages

Data Science

Artificial Intelligence (classical) • Data Analytics • Machine
Learning • Probability and Statistics

EXPERIENCE

Microsoft │ Software Engineer │ Hyderabad, IN
July 2020 - Present

- Primary contributor for building the Kubernetes Operator (Golang) for Azure ARC for SCVMM.
- Have suggested and implemented several optimisations in the product which have significantly improved throughput and performance, and made it possible to include some features.
- Worked on Prometheus to emit custom metrics and Grafana to build dashboards.
- Generated PowerShell scripts for SCVMM in Go.
- Created scripts in Bash and PowerShell for onboarding the private clouds of the customer to the Azure control plane.
- Developed the Azure CLI extension for the product in Python.
- Developed an ASP dotnet core app to create an API for invoking PowerShell Commands on a remote host.

Hindpos (Dhanotree Innovations LLP) │ Founder & Developer │ Kolkata, IN
December 2016 - December 2019

- Our first product **HindPOS Ausadhi** helped Pharmacy Retailers and Distributors to sell, track and create a market place for interselling. The product development was done in MEVN stack.
- Hindpos Ausadhi launched in 2017; despite very poor marketing and sales expertise, we retailed about 900 customers in Howrah district at 10K INR.
- We set up our own git server (**gitlab CE**), chat server (**rocket.chat**) and mail server (**mail-in-a-box**) in **digitalocean**.
- Hosted our site using nginx, bought our own domain, generated TLS/SSL certificates using let's encrypt.
- Used AWS Lambda and serverless for hosting several sites.

SAMSUNG Samsung R&D Institute │ Software Developer Intern │ Bengaluru, IN
May 2019 - July 2019

- Developed a full stack web application for visualizing and managing versions of annotations for image datasets.
- Used git with mongoose for versionizing the data.
- Created a CLI tool in JS to manage the different components of the app.

PROJECTS

Varta │ varta-kgp.herokuapp.com
A twitter querying system with geolocation support.

Uncovering Nucleus │ https://github.com/nascarsayan/uncovering-nucleus
Using a modified K-shell decomposition approach to get nucleus of infrastructure and social networks.

Animapp │ https://github.com/nascarsayan/animapp
A full-stack web application and webview android app featuring a mini version of MyAnimeList.

Protect Our Planet │ https://www.github.com/nascarsayan/POP
A board game with a simple AI using minimax algorithm.

Mini projects on OS and Computer Networks
Implementations of common page replacement algorithms like LRU, NRU, FIFO. • Programming a mini Unix shell. • A TCP like protocol (sequential, reliable and faster) over UDP. • A P2P chat application over TCP.