

# SAYAN NASKAR

## Full Stack & Software Developer

📍 Kolkata, India

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## EXPERIENCE

### Software Developer Intern

#### Samsung R&D Institute

📅 May 2018 – Jul 2018

📍 Bengaluru

- Developed a full-stack web application (MERN app) for visualizing and managing versions of annotations of image data sets.
- Created a CLI tool to manage the application.

### Entrepreneurial Experiences

#### DhanoTree

📅 2016 - 2018

- Co-owner and CTO of Dhano Tree, a Pvt. Ltd. licensed in Nov 2017.
- Goal was developing POS, ERP and invoice apps using full-stack.
- Our first product POS Ausadhi (MEVN app) was released in Jun 2018 and marketed locally.
- Created a medicine database scraping data from various websites.
- Set up our own git server (gitlab CE), chat server (rocket.chat) and mail server (mail-in-a-box) in digitalocean.
- Hosted websites using Nginx, maintained DNS records, generated free TLS/SSL certificates using let's encrypt.
- Created a few serverless React Apps (using AWS and serverless).

## PROJECTS

### Animapp (DBMS Project) 🔗

#### mysql, express, vue, node

📅 March 2018

📍 IIT Kharagpur

- A mini version of myanimelist, an anime and manga social networking and social cataloging application website.
- Scraped data from MAL, used the json data to construct SQL INSERT queries.

### POP (Intelligent Game Design Project) 🔗

#### python, pygame

📅 November 2017

📍 IIT Kharagpur

- Created a board game using mini-max algorithm.

### Hobby Projects

📅 2015 – Present

- Fluency in linux command line, have a clear picture of how debian based systems (especially ubuntu) work.
- Have created many tools, which make computer system usage in daily life convenient for me.
- Creating commercial grade MEVN (Mongodb, Express, Vue.js, node.js) apps using both REST and GraphQL apis.
- Scraped several websites using python tools like lxml, beautifulsoup and mechanize with the help of sitemaps.
- Creating a cli app using the github and gitlab apis for managing repositories on the respective websites.
- Writing scripts in bash and python to download fonts, images and songs.
- Python script for correctly tagging id3 tags of mp3 files of anime songs.
- Set up OpenStack, an open-source cloud-hosting software package in KGP.
- Created the website for a Material Science Department Lab of IIT Kharagpur.

## EDUCATION

### Dual Degree (B. Tech + M. Tech) in CSE

#### Indian Institute of Technology, Kharagpur

📅 July 2015 – May 2020

7.58/10

### Higher Secondary (Std. XII) in ISC Board

#### The Future Foundation School

📅 April 2015

95.20%

### Secondary (Std. X) in ICSE Board

#### St. Stephen's School

📅 April 2013

95.25%

## SKILLS

### In Decreasing Order of Experience

React.js   Vue.js   Javascript ES6   node.js  
C   C++   Python   HTML5   Java  
Mongodb/ Mongoose   Bash   CSS3  
MySQL   MIPS   Golang   Lisp

## RELEVANT COURSES

Database Management Systems   Algorithms  
Principles of Programming Languages  
Software Engineering   Operating Systems  
Computer Networks   Social Computing  
Intelligent Game Design  
Computer Organization and Architecture  
Switching Circuits and Logic Design  
Theory of Computation  
Discrete Mathematics   Data Analytics

## NOTABLE ASSIGNMENTS

- Implemented modified K-shell decomposition to identify the core of large networks.
- Implemented a basic neural network model for spam/ham detection from scratch.
- Implemented common task scheduling algorithms like FCFS, SJF, Round Robin.
- Created an Inter-IIT Tournament Management System in Java-Swing and Bash.

## CERTIFICATION

- Finalist of the event Source Code in Kshitij 2017 and Kshitij 2018.
- Finalist of the event Code Nites in Kshitij 2017.
- Awarded excellence in a programme named Object Oriented Programming and Algorithm Design in Java in 2016.