

Suparno Karmakar

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PROFESSIONAL EXPERIENCE

Full Stack Developer

August 2020 – Present

Tata Consultancy Services Limited

Kolkata, IN

- Development of a web application to track strategies for a fortune 500 company in US Healthcare and deployed them into production.(Vuejs, Java, MySQL)
- Developed a product to perform anomaly detection, statistical data analysis, data visualization and data quality measurement on any dataset(CSV or remote database) using Angular and Flask and MySQL.
- Developed a tool to measure devOps maturity of a by pulling data from various devOps tools based on applicability.(Angular, Python, MySQL)

INTERNSHIPS

Research Associate

Aug. 2019 – Aug. 2020

University Of Calcutta

Kolkata, IN

- Developed a novel system of secure communication among nodes on a wireless sensor network, without actually using any encryption schemes, using the concept of combinatorial designs. Applied for patent and received patent published in the Official Journal of Patent Office (dated 2020-08-07, Issue No : 32/2020) (No.202031010267 A)
- Developed an automated pipeline for testing various deep learning models on different data sets.

Research Intern

June 2019 – July 2019

IIT Patna

Patna, IN

- Assisted in developing a system that allows wireless sensor networks to distribute tasks among themselves to distribute load and power consumption.
- Developed a data-annotation tool for use of the research scholars.

Engineering Intern

Aug 2018 – Dec 2018

Indian Space Research Organization

Kolkata, IN

- Developed an automated pipeline for analysis NDVI(Normalized difference vegetation index) for various strips of the Indian subcontinent over a period of time.
- Assisted in the migration of some internal applications from the LAMP stack to MERN stack.

EDUCATION

Bachelor of Technology in Computer Science And Engineering

Aug. 2016 – Aug. 2020

University Of Calcutta

Kolkata, IN

Science with Computer Science

Aug. 2014 – Aug 2016

Hem Sheela Model School

Durgapur, IN

PROJECTS

Task Manager | Vuejs, Nodejs, Express, MongoDB, Passport, Socket

June 2020 – Present

- Creates a workflow starting from task creation,assignment,review,completion,reopening .
- Realtime notifications provided using web-sockets and a dashboard to show necessary stats.
- Using JWTs and refresh tokens along with CSRF tokens to maintain security of the website. Deployed using heroku and git.

Custom Portfolio Website | HTML,CSS3, JavaScript, Nodejs, Firebase

May 2018 – May 2020

- A configurable portfolio website tool that allows users to create their own portfolio website without writing the code
- Each user can login to change data which can be reflected in the website
- User can also download code for the website and deploy it later

TECHNICAL SKILLS

Languages: Python, C/C++, Assembly, JavaScript, HTML/CSS, Java, R, Matlab

Frameworks: React ,React-Native, Nodejs, Vuejs, JUnit, Angular, Flask, Hibernate, MaterialUI, Enzyme, Mocha

Developer Tools: Git, Docker, Gulp, Grunt, Jenkins, Google Cloud Platform, AWS,

Libraries: pandas, NumPy, Matplotlib, Tensorflow, PIL