Suparno Karmakar

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EDUCATION

University Of Calcutta — Kolkata, IN
Bachelor of Technology in Computer Science And Engineering — *Aug. 2016 – Aug. 2020*

Hem Sheela Model School — Durgapur, TX
Science with Computer Science — *Aug. 2014 – Aug 2016*

EXPERIENCE

Systems Engineer — August 2020 – Present
Tata Consultancy Services Limited — *Kolkata, IN*
- Development of a web application to track strategies for Johnson and Johnson and deployed into production
- Developed a dashboard to measure various KPIs from continuous data streams using Angular,Flask and Pandas.
- Learned to work in dev-sprints in agile methodology. Learnt to collaborate using tools like JIRA and Bitbucket

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.

SDE Intern — Mar 2018 – May 2018
Nimbus Systems Private Limited — *Kolkata, IN*
- Designed and created web pages for their application CURITO using simple HITML5. CSS3, JavaScript along with JSP.
- Assisted in the developing triggers for the database.

PROJECTS

Sub Finder | *Python, XML-RPC, Docker* — June 2020 – Present
- Developed an API to download subtitles for a movie or TV series
- Provided functionality for downloading subtitles or all episodes in one go.
- Provided login functionality in the API to allow user to download previously downloaded subtitles in different machine.

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