

Sourabh Patil

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EXPERIENCE

- **Jalan Technology Consulting** Bangalore, India
Aug 2021 - Present
 - **Software Engineer**
 - **Domain:** Front-end Development and Back-end Development
 - **Skills/Tools:** NodeJS, MongoDB, JavaScript, Gatsby, Digital Ocean, Rollbar, Git
 - **Project:** Extracted data using puppeteer/NodeJS, developed REST APIs, published npm packages, setup E2E automation testing infra using cypress, developed omnimetic website using Gatsby and deployed on Netlify, built machine learning project based on image processing to identify panel installation over rooftops

EDUCATION

- **Indian Institute of Technology Kharagpur** West Bengal, India
Jul. 2019 - May 2021
 - *Master of Technology - Agricultural Systems and Management; CGPA: 9.2*

SKILLS SUMMARY

- **Languages:** Python, JavaScript
- **DB Management:** MongoDB
- **Frameworks/Libraries/Tools:** NodeJS, Git, ExpressJS, Postman, SonarQube, New Relic, Cypress, Python Flask

PROJECTS

- **Omnimetic:**

It is basically a renewable energy sector project. Omnimetic helps to simplify the access of utility data such as monthly bills and real time energy usage data

 - Implemented service for the core concept of the product, which is **web scraping** using puppeteer
 - Converted logic of web-scraping into **npm packages** and published two npm packages successfully.(aps-data-api, srp-data-api)
 - Delivered end-to-end solution from creating and deploying an instance of code-quality tool- **Sonarqube** (droplet) on the **digital ocean** and then integrating it in project
 - Developed omnimetic website using **Gatsby** from scratch and successfully deployed it on **Netlify**. Added form handling support to it for handling the sales leads. Created ghost instance server for blogs page (<https://www.omnimetic.com>)
 - Implemented **micro-service** to upload and download resources from cloud-storage service (**AWS**)
- **Sunny Energy:**

Sunny Energy public portal is a quotation generation tool that enables end-user to get a customised quotation for solar-system instantly, resulting in effective decision making rather than going through back-and-forth calls with a sales representative of system providers

 - Part of Infrastructure team with objective to refactor the project infrastructure and uplift the performance of app
 - Integrated **Dev-Ops tool New Relic** in project which is cloud-based software to help website and application owners track the performance of their services/APIs. Because of this, we were able to detect problematic areas and debug them easily
 - Implemented the End-to-end automated testing support to project using **cypress**
 - Integrated **logger service** using Rollbar and support for showing Live-site error alerts on MS-Teams
 - Part of Backend team for developing various features and backend architecture
- **SunLead:**
 - Successfully led the SunLead project, a lead generation software for solar companies.
 - Defined project scope and objectives in collaboration with team
 - Developed and maintained robust backend systems using NodeJs
 - Integrated third-party APIs to extend the functionality of the application
- **Panel Detection ML:**
 - **Model Development:** Created CNN-based model to detect solar panels on rooftops.
 - **Flask Integration:** Integrated model into Flask app for user interface and API access.
 - **Address Analysis:** Processed Excel inputs to deliver solar panel probabilities for respective addresses.

ACHIEVEMENT/EXTRACURRICULAR

- GATE 2019 : Secured **All India Rank 52** in GATE 2019 in AG discipline
- Achieved **Gold Level** (5 Stars) in Problem Solving on HackerRank

CODING PROFILES

- Hackerrank: [coder4097](#)
- LeetCode: [coder4097](#)
- GeeksForGeeks: [coder4097](#)