# SOUVIK KAR MAHAPATRA

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## EXPERIENCE

**Digital Product School, Germany**                                                            Remote
*Software Engineer*                                                          *Sept 2022 – March 2023*

- Developed **data management software** for pfaff-mold.de streamlining the collection of diagnostic information on mold manufacturing data from machines.
- Designed and implemented a system to **capture high-speed time series data from sensors** using **MQTT protocol**, and stored it in **PostgreSQL** database.
- Conducted **technical feasibility studies**, utilizing **design thinking** methods to evaluate the viability of potential solutions.
- **Visualized** the real-time sensor data in the frontend providing intuitive and actionable insights leading to an **80%** reduction in manual input time.
- **Collaborated** with **cross-functional** and **distributed** teams.
- Utilized **Agile** methodology to develop high-quality product **30%** faster that met customer needs and delivered value.

**Tyup**                                                                                       Remote
*Back-end Engineer*                                                        *June 2021 – February 2022*

- Developed **news feed** with various filters.
- Feedback system with Notion as integration to fit with the team's workflow.
- Implemented **email OTP system** using **Redis**.
- Automated moving data from **MongoDB** to **PostgreSQL**
- Used **Nginx** as a reverse proxy and blocked malicious request
- Integrated **AWS S3** with in-server authentication to prevent unauthorized access to resources.
- Served **1000+** active users and survived injection attacks.

**MnyRate**                                                                                    Remote
*Fullstack Developer*                                                          *April 2021 – May 2021*

- Created **front-end** for admin dashboard
- Designed **scope** based API endpoints

## PROJECTS

**notion-to-md** [ Typescript ]                                                        December 2021

- NodeJS module that converts Notion app pages, block and list of blocks to markdown (supports nesting) built on top of notion-SDK-js
- **2000+** weekly downloads on NPM.
- **500+** stars on GitHub with active development

**lsx (ls-Xtended)**  [ Go, Shell ]                                                    October 2021

- A command-line utility that lets you navigate through the terminal smoothly. Create an alias for the desired directory. Ranks most visited directories for better accessibility.
- **170+** stars on GitHub with an active contribution.

**gofuzz** [ Go ]                                                                        March 2021

- Fast web fuzzer that tests the URL for different set of inputs.
- Test for numbers within a certain range, ASCII characters and inputs from files. Uses Golang's concurrency for fast fuzzing. Categories inputs as per the status code. Export results to various file formats for further automation.
- **30+** stars on GitHub

**web-SS** [ NodeJS, Express,EJS ]                                                     December 2020

- Takes screenshots of the website(s) in bulk, automating the screenshot process.
- Implemented front-end and back-end of the application

## TECHNICAL SKILLS

**Languages**: JavaScript, C++, Go, Python, Shell, Typescript, C
**DB**: PostgreSQL, SQL, MongoDB, Redis
**Frameworks**: NextJS, React, Svelte, Echo, Gin
**Cloud / DevOps**: AWS(S3, EC2), Docker, Nginx, GitHub Actions

## ACHIEVEMENTS

**Hult Prize 2022** On-Campus winner

## EDUCATION

**Kalinga Institute of Industrial Technology**                     Bhubaneshwar, Odissa
*3rd year, B.Tech in Information Technology*              *September 2020 – Expected July. 2024*