Saswata Mukherjee

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🎓 EDUCATION

Kalinga Institute of Industrial Technology, *Bachelor of Technology (B.Tech)* Jul 2019 – Jul 2023
- Third-year student majoring in Computer Science and Engineering with a GPA of 9.64/10.0.

Delhi Public School, Ruby Park, *CBSE* Jan 2006 – Apr 2019
- Graduated CBSE with 93.4% (9.35/10.0 GPA) in Science with Computer Science stream.

🧠 SKILLS

Languages
JavaScript(ES6), TypeScript, Golang, Python, HTML5, CSS3, SQL, C, C++

Libraries/Frameworks
Node.js, React.js, Express.js, Flask, Echo, Next.js

Tools
Git, GitHub, Docker, Kubernetes, Build Tools, Monitoring, CI/CD

Databases
PostgreSQL, MySQL, MongoDB, Redis, SQLite

Concepts
RESTful APIs, GraphQL, gRPC

💼 EXPERIENCE

Google Summer of Code @ Cloud Native Computing Foundation (Thanos), *Mentee* 🔗 May 2021 – Aug 2021
- Developing mdox 🔗 , an open-source tool for smart automation of project documentation and website, built with Golang.
- Features robust markdown formatting using GitHub Flavored markdown spec, transformation, and fast link checking with smart validators.
- mdox will be used as a CI/CD automation tool for maintaining documentation in notable CNCF 🔗 open-source projects such as Thanos 🔗 and Observatorium 🔗 .

MayaData, *Software Engineer Intern* 🔗 Aug 2020 – May 2021
- Developed UI components and screens and architected code refactors for data-intensive dashboards of LitmusChaos 🔗 , an open-source Cloud-Native Chaos Engineering Toolkit for SREs, as well as Kubera, a single-click enterprise Kubernetes automation solution
- Transitioned frontend codebases for detailed Chaos Engineering dashboards to use a custom in-house component library, Kubera-UI 🔗 , using technologies like React.js, Material-UI, TypeScript & StoryBook

Developer Student Clubs(Google), KIIT, *Full-Stack Web Developer* 🔗 Nov 2019 – present
- Architected CLI for Divert 🔗 , the internal URL redirect service, with secure authentication and aesthetic design. Released as an npm package 🔗 .
- Engineered the judging web portal for devhack, an online hackathon, for judges to mark submissions using Gatsby.js and Styled-Components.
- Instructed peers by coordinating online sessions and authoring technical blogs 🔗 .

📂 PROJECTS

Quote Search Engine, *Golang, Elasticsearch, Next.js, TypeScript* 🔗
- Scrapes Goodreads quotes and indexes data into Elasticsearch for robust text analysis using Golang, with CLI and frontend web application present, for easy interaction with analyzed data.

React Job Board, *React, Node.js, Express.js, Redis, Cron, Material-UI, TypeScript* 🔗
- Lists jobs using the GitHub Jobs API by caching data from the API into Redis and updating it using an hourly cron job. Thus, avoids repetitive network requests to the API and improves latency considerably.

Data Science API, *Python3, Scikit-Learn, Flask* 🔗
- Provides ML Algorithms such as Linear Regression using scikit-learn as RESTful API endpoints built using Flask, which returns predictions and accuracy metrics. Useful for rapid testing and analysis of sample data.

📜 CERTIFICATIONS

- AWS Fundamentals 🔗
- GCP QwikLabs Skill Badges 🔗
- JP Morgan Chase & Co.- SWE Virtual Internship 🔗