SATYAM RAI
SOFTWARE ENGINEER

EDUCATION

Diploma in Computer Science and Technologies
Darjeeling Polytechnic, 2015

BTech in Computer Science
Alliance University, 2018

ABOUT ME

Enthusiastic Developer eager to contribute to team success through hard work, attention to detail, and excellent teamwork. Motivated to learn, grow and excel in Software Development. Ready to help the team achieve company goals.

CONTACT

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Darjeeling, India – 734101

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9083318046

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satyam123.sr@gmail.com

WORK EXPERIENCE

2018	Internship *Avi Solar*
2018-2019	Associate Software Engineer *Avi Solar*
2019-2020	Software Engineer *Avi Solar*
2020-2022	Software Engineer *Enerman*

SOFTWARE SKILLS

OS	Linux and Windows
Language	Javascript, HTML, CSS, Java, PHP, SQL
Tools / Services	AWS(EC2, Lambda, S3, RDS, Billing, Cloudfront), Postman, Github, Bitbucket, Heroku, VS Code, Android Studio, pm2
Technologies / Frameworks	Node.js, express, Vue.js, Slim framework, MySQL, MongoDB, Git, React, Redux, Docker

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WORK DETAILS

Avisolar

I joined Avisolar as an intern and then as a full-time employee working as a full-stack developer. I was part of the following projects while I was here

1. **SCADA v3**

   I was part of developing and maintaining SCADA (used to monitor Solar power plants). Some of my major contributions were

   i. Optimizing database after which read operations were exponentially fast
   ii. Improved API response time with an improvement of 2x

2. **SCADA Mobile App (Android)**

   I was responsible for developing a mobile app to monitor the plants. I was able to design and develop the app from scratch and publish it to Play Store.

3. **PPC**

   PPC is a system to control key parameters for a solar power plant to curtail generation as instructed by the government. I was leading the software development for this project.

   We were able to complete this project within 2 weeks and this product was deployed to a 350MW plant where we used to receive hundreds of requests every second.

4. **SCADA v4**

   I was part of this product from its requirement and design phase and also shared my inputs where I felt necessary. System capabilities:

   i. We served 1GW+ power plants
   ii. Control features
   iii. Modern monitoring dashboards
   iv. Configurable alert mechanism
   v. Live SLD dashboard
   vi. 3rd party data integration
   vii. Analytics

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WORK DETAILS

Enerman

I joined Enerman as a full-stack developer, I was part of much major development in this company. I made significant contributions to designing, developing, and improving the product. I was part of the following projects:

1. **SCADA**

   SCADA is a system to monitor, control, and generate alerts for a Solar power plant. This system was serving around 100 customers with thou-

   i. API optimization which decreased the response time by 40-80%
   ii. DB load was reduced by improving the query
   iii. DB read operations were increased by at least 2x
   iv. AWS bill was reduced by 50%
   v. Server was horizontally scaled to handle more request

2. **Solar Forecast**

   This software computes energy forecasts considering weather parameters that could come from multiple sources in various formats.