Saurav Kumar

Graduate Research Assistant, Virginia Tech

Detail-oriented and motivated Systems & Software Engineer with 4.5+ years of proven experience. Proficient in leveraging full-stack technology for developing efficient Software Applications in the domains of Network Automation, Monitoring, and Orchestration.

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WORK EXPERIENCE

Senior Software Engineer
Anuta Networks Pvt. Ltd.

11/2020 - 12/2021
Projects

- Led the development of an AI/ML microservice which is being used for purposes such as feature prediction, anomaly detection, and root-cause-analysis, among others.
- Contributed to the in-house UI library by creating re-usable components that are being used in several important POCs and have dramatically reduced the development time of new features.
- Worked on the development of the organization's new Cloud SAAS Product, which included the integration of external Access Management software and adding Multi-Tenancy support.
- Participated in every step of the Product development process, from design (Infra/UI) through automated testing (TestNG/Protractor) to deployment (K8s/AWS).

Assistant Manager
GTNOG - Tata Communications Ltd.

06/2017 - 11/2020
Projects:

- Led the development of In-House SNMP/NetConf based Controller, thereby reducing the company's reliability on external vendor and expenditure. The product supports an Inventory System, service creation via custom service templates, and monitors changes in network topology, among other functionalities.
- Developed NPCA to ease visualization of Network Metrics in real-time and compute the effect on these metrics in case of Link/Node failure. This reduced downtimes during failures and also provided a single point of reference for Network Operational data.
- Created distributable applications to streamline Infrastructure upgrades and migrations across vendor platforms such as Cisco, Alcatel & Juniper.
- Designed and implemented a technology stack to monitor and record network health metrics, detect anomalies, and generate alarms in real-time for the organization's VPN and ILL networks.
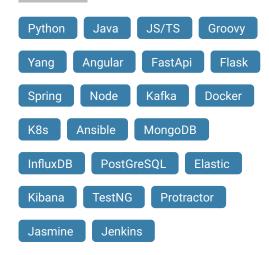
HONOURS/AWARD

Tata Communications Bravo Award - Responsive: Responsiveness & Agility (10/2019)

Tata Communications Xtra Mile Award - Venturing: Innovation & Creativity (04/2019)

Tata Communications 'Responsive: Solution Orientation' Award (08/2018)

SKILLS

Python   Java   JS/TS   Groovy   Yang   Angular   FastApi   Flask   Spring   Node   Kafka   Docker   K8s   Ansible   MongoDB   InfluxDB   PostGreSQL   Elastic   Kibana   TestNG   Protractor   Jasmine   Jenkins

PUBLICATIONS

Characterisation Of Field Plated High Electron Mobility Transistor (01/2016)
- https://doi.org/10.1109/MicroCom.2016.7522455

EDUCATION

Master of Science (Computer Science)
Virginia Tech, Blacksburg

01/2022 - Present

GPA: 4.0/4.0

Responsibilities
- Research Assitant, Wireless@VT Lab, Bradley Dept. of Electrical & Computer Engineering

Bachelor of Engineering (Electronics & Communications)
Birla Institute of Technology, Mesra, Ranchi, India

07/2013 - 05/2017
GPA: 8.28/10.0