

MUDIT KUMAR SAINI

Senior Software Engineer

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Working as **Senior Software Engineer** in **Samsung Semiconductor Research India(SSIR)**. In total, I have **2.5+ years** of industrial work experience. Currently looking for full time opportunity in web development(Full stack/backend).

EDUCATION

- Completed **M-Tech, Data Science**
IIIT-Bangalore
CGPA : 8.125/10 (3.2 / 4)
Bangalore, Karnataka
- Completed **B-Tech, CSE**
Government Engineering College
Percentage: 70% with honors.
Ajmer, Rajasthan.
- Completed **10+2**
TPS
Percentage: 74%
Jaipur, Rajasthan

ENGINEERING/TECHNOLOGY

- Languages:**
C, JAVA.
- Web Technologies:**
HTML, Javascript, JQuery, Ajax, Bootstrap, Nodejs, REST, Spring, Hibernate and Jersey.
- Database:**
MongoDB, Mysql.
- Tools:**
Eclipse, Sublime, Visual Studio, Atom and Notepad++
- Cloud:**
AWS(EC2, S3 Bucket, Elastic IP), Mongo Atlas.
- Version Control:**
GIT.

SKILLS

- Algorithms and Data Structure.
- Object-Oriented Design.
- Design Patterns.
- Full-stack Understanding.
- Debugging.

PERSONAL INTERESTS

- Stretching
- Guitar
- Mythologies
- Badminton
- Cricket
- Browsing

PERSONAL INFORMATION

- Gender: Male
- Nationality: Indian
- Hometown: Jaipur

WORK EXPERIENCE

- Sept 2018 **Senior Software Engineer**
Current Samsung Semiconductor Research India
Bangalore, Karnataka
 - Develop and design web services.
 - Implement Android Power HAL.
 - Develop and maintain Register access engine.
 - Develop Android Drivers for power and maintain/update existing products.
 - Analyse risks and make plans beforehand.
 - Bug fixing. Do code reviews.
- June 2018 **Student Trainee**
Jan 2018 Samsung Semiconductor Research India
Bangalore, Karnataka
Optimization of Bokeh effect using parallel programming, vectorization and OpenCL.

PROJECTS

- | Project | SOC Manager |
|---|---|
| Frontend: | Bootstrap, Javascript, HTML/CSS, JQuery |
| Backend: | Nodejs, MongoDB. |
| Architecture | REST |
| <ul style="list-style-type: none">Developed SOC Catalogue Service which create profiles for each soc, which have details regarding various different components along with available software versions and parent SOC details.Developed Dev Tracker service which tracks device development in both hardware and software phases.Implemented Device Reservation Service which tracks states of device and its history of use along with flashing history.Developed Device Release Service which keeps track of client software tags for each device versions.Implemented User authentication service using JWT. | |
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- | Project | Android Power PowerHal/Driver |
|--|--|
| Language: | JAVA, C |
| SOC's | 7885, 7904, 7884, 850, *unnamed(new) |
| Android Versions | Oreo, Pie, Q, R |
| Modules | Android PowerHal, Power Domain, System Suspend, Dynamic Voltage scaling, Thermal Management Unit and Clock Management Unit |
| <ul style="list-style-type: none">Developed power related android driver development.Implemented various debug features for each driver.Bug fixes. | |

- | Project | Register Access Engine API |
|--|----------------------------|
| Language: | C |
| Implemented Register Access Engine API which provide abstraction between driver and hardware. This reduces upbring time for SOC. | |

- | Project | Android CTS Reporter |
|---|-------------------------------|
| Backend: | Java Jersey, Hibernate, MySQL |
| Architecture: | REST |
| Redesigned reporter service. Added history feature for each SOC in order to track change list between two android version releases. | |