

# Niranjan Kumawat

e-Resume

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## Work Experience

### Samsung Research & Development Institute, Bangalore (SRI-B)

#### Lead Software Engineer

April 2022 - Present

- Drive design and development discussions on technical requirements.

#### Senior Software Engineer

April 2021 - March 2022

- Mentored new recruits to enhance their understanding of the platform.
- Designed and drove **small-scale feature development** for the platform.
- Configured AWS services to support dev and stage environment's infrastructure requirements.
- Troubleshoot un/reported server-side issues: server's latency & throughput, anomalous logging behavior, etc.
- Developed an **algorithm to integrate a 3rd-party solution on an event-driven serverless architecture** facilitating occasional syncs between servers.
- Collaborated in designing and developing multiple **privacy frameworks (Samsung consent, TCF-GDPR, Coppa)** to provide personalized ads experience to **billions** of users. Responsibility included requirements gathering, system designing, implementing REST-based web service, and end-to-end testing.
- Co-authored a research paper: "Programmatic optimization of ad pods for maximizing consumer engagement and revenue." (*In Progress*)

#### Software Engineer

June 2019 - March 2021

- Contributed to sprint planning and followed Agile practices for feature developments.
- Collaborated in designing and developing the Waterfall Model for the platform. Further, **developed an efficient heuristic auctioning algorithm** for Ad Podding to enhance revenue and consumer engagement in the OpenRTB setup.
- Contributed to Samsung Ad's Supply Side Platform reliability by ensuring sufficient test case coverage and overall server performance.
- Supported QA testing with stage deployment, understanding features, and timely bug resolution.
- Collaborated in designing and developing **logging utilities** - considering business reporting, and production debugging requirements - for server-side logging using Apache Log4j 2.
- Researched and experimented with language identification models and developed an **LSTM-RNN solution** for identifying very short ad titles. Proposed solution **performed 6% better** on Cohen's Kappa metric.

## Academic Details

### Indian Institute of Technology (Indian School of Mines), Dhanbad

2015-2019

Bachelor of Technology(w/ honours), Computer Science and Engineering

CGPA: 8.23 (on a scale of 10)

## Technical Skills

**Languages:** C, C++, Java, Python, HTML, CSS, SQL, Swagger.

**Frameworks:** Vert.x, Mockito, PowerMockito, pytest, Apache Log4j2, Flask.

**Platforms and Services:** nGrinder, AWS - EC2, S3, Lambda, KMS, Secrets Manager, RDS, Redis.

**Others:** Git, Jenkins, VS Code, Eclipse IDE, PyCharm.

## Achievements

- Awarded "Project Incentive Award," by MD. Going the extra mile to meet project deliverables.
- Awarded "2021 Samsung Excellence Awards Q3" under the "Super Tech Award" category.
- "Samsung Citizenship Award": Outstanding contribution.
- "Global Samsung Ads Hackathon - 2020." - 2nd Position.
- "Spot Award-2019": Improvements in Language Detection.
- Senior Secondary School Topper.