

Shivam Bansal

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Bengaluru, India

EDUCATION

- **Indian Institute of Technology Guwahati** Guwahati, India
Bachelor of Engineering in Computer Science *August 2017 – July 2021*

EXPERIENCE

- **Oracle** Bengaluru, India
Senior Software Engineer *July 2021 – Present*
 - **Syslens:** Worked on a comprehensive server monitoring product covering - memory, CPU, filesystem, database and KVM/QEMU monitoring. Deployed across all major Oracle Cloud DB offerings.
 - **Syslens Metrics:** Took **end-to-end ownership** of the metrics generation module including proposal, design, implementation and deployment. Led a team of two for implementation. The novel specification based approach led to a **3x increase** in velocity.
 - **File System Monitoring:** Implemented checks resulting in a **45% reduction** in file system related issues. Identified key stakeholders, derived requirements by analysing their issues and deployed them in a timely manner.
 - **Incidents:** Implemented an incident package generated on fatal crashes of the product. Incident includes application and system logs, stack trace, configuration details and more packed in a convenient ZIP file. Resulted in average debugging time **reduction from 3 days to 1 day**.
 - **Webbox HTML Framework:** Implemented a layout-based, declarative UI framework for visualising monitoring data. The resulting single file visualisation web page is embedded with customer tickets leading to **quicker root cause analysis**.
- **Oracle** Bengaluru, India
Software Engineering Intern *June 2020 – July 2020*
 - **Flexwire:** Worked on a data transfer tool for collecting logs and diagnostic data from servers. Reduced space consumption by **40%** using a columnar data format. Resulting in reduced transfer times and improved system performance.

PROJECTS

- **COVID Home Quarantine Mobile App:** Cross-platform mobile app with proximity detection, geo-fencing for patients and regular patient check-ins for medics. Developed during the Oracle Intern 12hr Hackathon, securing **1st place** in the competition.
- **Clone Leave Application System:** Web application to track students' leave applications. Including role-based access control for students and professors; a notifications system; multi-level approvals and file attachments.
- **C Compiler:** Compiles C code to an open source RISC instruction set. Lexical analyser uses flex, and parser uses GNU Bison.
- **Sentiment Classifier for Hindi:** Sentiment classification of Hindi language movie reviews using SVM and decision tree. Open source dataset of Hindi language movie reviews with sentiment labels.

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, C++, SQL, Java
- **Tools:** Node.js, React Native, Jupyter Notebook, Git, Docker
- **Coursework:** Communication Networks, Operating Systems, Computer Architecture, Database Systems, Algorithms and Data Structures, Machine Learning
- **Fundamentals:** Object Oriented Design, Concurrent Programming, REST, Distributed Systems, Containerization, Version Control