Shivam Bansal

shivam.bansal@live.com

+91-9127062977

shivambl.com

linkedin.com/in/shivambl

github.com/shivambl

Bangalore, India

EDUCATION

- **Indian Institute of Technology Guwahati** — Guwahati, India

  Bachelor of Engineering in Computer Science — *August 2017 – July 2021*

EXPERIENCE

- **Oracle** — Bangalore, India

  Senior Software Engineer — *July 2021 – Present*

  - **Syslens**: Server health monitoring — Python, Linux
    * Developed file-system, memory monitoring algorithms to predict PaaS server issues, leading to a **9%** decrease in customer tickets.
    * Implemented diagnostic data collection for customer tickets, reducing ticket resolution time by **1 day**.
    * Designed and implemented monitoring for mission-critical virtualization servers with complete **ownership**.
  - **Syslens Metrics** — Python
    * Proposed, designed, implemented and deployed a metrics generation module for Syslens.
    * Led a team of 2 people through implementation and testing.
    * The novel specification based approach led to a **3x increase** in development velocity.
  - **Incidents** — Python
    * Implemented a library to generate a dump of diagnostic data, in the case of a crash or on demand.
    * Reduced debugging time from **3 days** to **1 day** on average.
  - **Webox**: UI Framework — JavaScript, D3.js
    * Implemented a component-based UI framework for visualising server monitoring data.
    * Seamlessly integrated the visualisation web page with customer tickets, **reducing ticket resolution time**.

- **Oracle** — Bangalore, India

  Software Engineering Intern — *June 2020 – July 2020*

  - **Flexwire** — Python, JSON, Apache Parquet
    * Worked on a data transfer tool for uploading system files from PaaS servers to object storage.
    * Reduced space and bandwidth consumption by **40%** by using a columnar data format.

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