

# SHIVAM BANSAL

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## EDUCATION

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### Indian Institute of Technology, Guwahati

June 2021

B.Tech. in Computer Science & Engineering

Member of CSE Association

Member of Technical Board

Overall GPA: 7.40

## EXPERIENCE

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### Oracle Corporation

July 2021 - Present

Member of Technical Staff, Database Cloud Frameworks – Python, REST

Bengaluru, KA

- Worked on a system monitoring tool to monitor and diagnose Database Cloud instances.
- Implemented the ability to generate and fetch reports from remote instances.
- Increased team efficiency by enabling continuous, automatic testing.
- This involved setting up a web server and using webhooks, REST APIs.

### Oracle Corporation

July 2020

Intern, Database Cloud Services – Python, Apache Parquet

Bengaluru, KA

- Created a data pipeline to convert and transport diagnostic data.
- Designed and implemented a plugin extensible layer with APIs to compose pipelines as needed.
- Achieved significant bandwidth savings in transport by converting data to Apache Parquet format.

## TECHNICAL STRENGTHS

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### Computer Languages

Python, C++, JavaScript, C, Java

### Protocols & APIs

JSON, REST, Apache Parquet

### Tools

Git, Bash, Make

### Key Courses

Computer Networks, Operating Systems

## PROJECTS

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### Break The Chain

JavaScript, React Native, Firebase

- Mobile application to monitor home quarantined patients with selfies and GPS. Also notify civilians if they come in contact with any patient.
- Developed and presented the application.
- Authentication and tracking breaches of social distancing were major challenges that were overcome.
- Achieved victory in the Hackathon beating 14 other teams.

### C Compiler to MIPS Code

C, flex, bison, Make

- Compile subset of C to MIPS code to be tested on SPIM simulator.
- Formulated the grammar and contributed to the remaining work.
- Implemented the test suite and Make based build system.

### Leave Approval Portal

Visual Basic, MySQL

- Manage approval, rejection and application of leaves recognising seniority relations. Send notifications to users of any activity on their own or their reports' applications.
- Designed the required database tables with relations.
- Implemented the notification system including deleting notifications after they are read.