SHIVAM BANSAL

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EDUCATION

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

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

Computer Languages	Python, C++, JavaScript, C, Java
Protocols & APIs	JSON, REST, Apache Parquet
Tools	Git, Bash, Make
Key Courses	Computer Networks, Operating Systems

PROJECTS

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.