

Ameya Mohape

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WORK EXPERIENCE

- **Oracle India Private Limited** Remote
Member of Technical Staff *September 2020 - Present*
 - **Data Analysis**
 - Designed a React-based tool with Oracle JET for data analysis using hierarchical aggregation, pivot tables, faceted filters, and charts.
 - Integrated Oracle Analytic Views and Data Insights into the Data Analysis tool for seamless data loading, analysis, and reporting, with export options to Oracle Analytics Cloud, Microsoft PowerBI, and Tableau.
 - Enhanced analytical capabilities by integrating generative AI for automated SQL query generation.
 - Created AI-driven prototypes, pushing the boundaries of conventional data analysis.
 - Developed PL/SQL packages for seamless backend data processing.
 - Built RESTful APIs following SOLID principles for scalability and extensibility.
 - **Oracle Mobile App for Autonomous Database**
 - Led the development of a cross-platform mobile app(iOS and Android) using React Native to bring Oracle Autonomous Database to mobile devices.
 - Enabled voice-command interaction with the database and dynamic insightful visualizations on mobile phones.
 - Product showcased in Oracle CloudWorld 2024.

EDUCATION

- **Indian Institute of Technology Bombay** Mumbai, India
Master of Technology - Computer Science Engineering; CPI: 8.42 *June 2020*
- **Ramrao Adik Institute of Technology** Navi Mumbai, India
Bachelor of Technology - Computer Science Engineering; CPI: 7.89 *May 2017*

PROJECTS

- **Quick Marriage Biodata Maker** *August 2024*
 - Developed a ReactJS app enabling users to create and download personalized marriage profiles.
 - Features include adding personal details and profile pictures, with the ability to export profiles as PDF files.
 - Deployed the app on GitHub Pages at no cost, ensuring easy access for the community.
 - Adopted by over 550 users within the native community.
- **Elastic scaling using the libvirt API** *April 2020*
 - **Objective:** Build a generalized autoscaler that elastically scales the server application in response to varying loads.
 - Implemented an elastic autoscaling system in Python to monitor and autoscale the number of server VMs depending on the load from a client.
 - Verified that as the client/load-generator increases/decreases the load on the VMs, the autoscaler automatically scales up/down the number of VMs without losing any requests.
- **Automatic Creation of Indices in PostgreSQL** *April 2019*
 - **Objective:** Automatically create indices on non-key attributes by considering the frequency of scans performed by PostgreSQL during normal query execution.
 - Modified the source code of PostgreSQL to extract and log the metadata of relation scans.
 - Created a daemon process in Python to periodically monitor the log and trigger index creation when the cumulative cost of relation scans exceeded a predefined threshold.

SKILLS SUMMARY

- **Languages:** Javascript, JAVA, Python, C/C++, SQL, Bash, HTML, CSS
- **Frameworks & Libraries:** React, ContextAPI, Redux, React-native, jQuery, KnockoutJS, requireJS, Oracle JET
- **Tools & Technologies:** Maven, GIT, Jira, Docker, PostgreSQL, Oracle DB
- **Platforms:** Linux, Windows, Android, iOS, Oracle Cloud, AWS, GCP, Azure

POSITIONS OF RESPONSIBILITY

- **Mentor @ Oracle** Oracle
Mentored and assisted new grads and interns. *August 2021, 2023, 2024*
- **Interview Coordinator for Placements** IIT Bombay
Coordinated with a team of 250+ members for interviews of 1400+ students. *December 2018*
- **Teaching Assistant** IIT Bombay
Assisted instructors with the grading of exams and assignments. *July 2018 - June 2020*