RASHMI MECH

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EXPERIENCE

Application Developer
MSCI Inc.

📅 July 2015 – Ongoing   📍 Mumbai, India

- Worked on BarraOne(https://goo.gl/MoITQh), a web application that helps asset managers in identifying and managing risk exposures to make more informed investment decisions.

Graduate Student and Teaching Assistant
IIT Bombay

📅 July 2013 – June 2015   📍 Mumbai, India

- Mentored 10 students for the CS 101 lab as they took their first ever computer programming course.
- Responsible for guiding five different teams to a successful course project.
- Mentored students as the TA of Implementation of programming languages.

PROJECTS

PRISM program analyzer generator
IIT Bombay

📅 July 2014–June 2015   📍 Mumbai, India

- Implemented an inter-procedural context-sensitive liveness-based reaching definition analysis in PRISM and analyze incremental data flow analysis.
- Proposed a method of extending incremental data flow analysis to non-bit vector analysis.
- Designed and developed a number of possible improvements in the implementation that may add to the performance and scalability of the incremental solver.

System Load Simulator
MSCI Inc.

📅 August 2015–September 2015   📍 Mumbai, India

- Created a tool to simulate system loads conditions of the plant and evaluated the impact of different plant configurations on queuing by providing few queuing statistics and trends.

SUMMARY

Motivated Application Developer with experience in shipping quality product. I try to create things I can be proud of.

HIGHLIGHTS

🏆 **Full Stack Experience**
I am proud of having worked with different layers and domains. I have worked on program analysis, made robots, debugged UI, and developed standard N-tier applications (UI to Java to SQL)

❤️ **Academic**
Solid Academic Background

SKILLS

Skill	Level
Java (OCA 7 Certified)	●●●●●●
SQL Server	●●●●●●
Torque, Perforce	●●●●●●
Shell Scripts	●●●●○○
Mockito, GIT	●●●○○○
C++, Python, Spring	●●○○○○

- *Experience of working in diverse environments (Linux, Windows) with wide range of tools.*
- *Well versed with the software development process essentials (IDEs, version management, build management, dependency management and testing)*

EDUCATION

M.Tech. Computer Science and Engineering
IIT Bombay

📅 July 2015 – June 2016

Thesis title: Program Analysis

B.E Computer Science and Engineering
Guahati University

📅 July 2009 – June 2013

84%, 5th position in the Merit list

OTHER PROJECTS

Reduced Super Graph in GCC
IIT Bombay

📅 March 2014–May 2014   📍 Mumbai, India

- Implemented an algorithm to generate a reduced Supergraph in GCC by deleting unnecessary statements.
- Deleting these unnecessary statements will improve analysis efficiency while maintaining its precision.

Implementation of Division Operator in PostgreSQL
IIT Bombay

📅 September 2013–November 2013   📍 Mumbai, India

- Implemented an algorithm to implement Division Operator in PostgreSQL.
- Provided syntactic support for Division Operator as a new keyword.

Constant Propagation analysis
IIT Bombay

📅 September 2013–November 2013   📍 Mumbai, India

- Implemented Constant Propagation analysis in Soot.