

Jashkumar Dave
G3, Madhura Suraksha,
J.P.Nagar 5th Phase,
Bengaluru - 560078.

Email-id : jashdave23@gmail.com
Mobile No.: 9773029419
Alt Mob No.: 7977734194

Academic Details

Examination	University	Institute	Year	CPI/%
Post Graduate Specialization: Post Graduation	<i>Computer Science and Engineering</i> IIT Bombay	IIT Bombay	2017	8.96
Graduation	University Of Mumbai	Thadomal Shahani Engineering College	2014	70.00
Diploma	Maharashtra State Board Of Technical Education	Thakur Polytechnic	2011	85.87
Matriculation	Maharashtra State Board Of Secondary & Higher Secondary Education	The Saraswati Vidyalaya	2008	85.23

Work Experience

- **Oracle India Pvt. Ltd.** (July'17 - Present)
 - Currently working in Oracle NoSQL database team as **Member of Technical Staff (SD 2)**.
 - Developed **Eclipse Plugin** for connecting, accessing, and manipulating data and schema in **Oracle NoSQL Database**.
 - Currently working on containerization of Oracle NoSQL Database using **Docker** and **Kubernetes**.

Publication

- Performance comparison of state synchronization techniques in a distributed LTE EPC at **IEEE Conference on NFV-SDN 2017**.

Projects

- **M.Tech Project : Distributed Data Store for Scaling the NFV based LTE EPC** (May'16 - June'17)
(Guide: *Prof. Mythili Vutukuru*)
 - **Objective** : Design and study of a key-value based data store for centrally saving the state of LTE EPC.
 - Studied a set of key-value store implementations viz. **RAMCloud, Redis, MICA, FARM**, etc.
 - Designed an client server based interface for accessing the distributed data store.
 - Deployed and compared the performance of **RAMCloud, Level DB, Redis and Memcached** as data store for LTE EPC network applications.
 - Used **YCSB** to evaluate data store performances.
 - Wrote performance analysing tools for analysing different data store performance specific to LTE EPC.
- **Undergraduate Project : Video Exposure Fusion** (Jun'13 - May'14)
(Guide: *Prof. Archana Kale*)
 - Implemented and compared two papers viz.
 - * **Exposure Fusion** paper by Tom Mertens et. al.
 - * An Optimization-based Approach to **Fusion of Multi-Exposure**, Low Dynamic Range Images paper by Ketan Kotwal et. al.
 - Used these approaches to implement video exposure fusion in **Matlab**.
- **Diploma Project : Digital Circuit Simulator** (Jan'11 - May'11)
(Guide: *Prof. Suwarna Thakre*)
 - A simple simulator for designing and evaluating digital circuits.
 - Provided a simple **Java swings** based interface for designing circuits.
 - Ported it to **Java applets** for online use.

Course Projects

- **RAFT Consensus Enabled File Server**
 - Implemented **RAFT consensus** algorithm for log replication.
 - Implemented a file server with basic operations of read, write, delete and compare and swap.
 - Used the Raft implementation to design a highly available, fault tolerance and reliability file server.
- **Object Classification**
 - Evaluated and compared the performance of different object classification algorithms.
 - Algorithms used were **Linear Classifier, SVM, MLP, CNN, ResNet, and InceptionV3**.
- **Learning Agent to Play Carom**
 - Developed a learning agent to play carom against other agents.
- **Star Wars Characters in OpenGL**
 - Formulated a 3D representation of two star war droids using **OpenGL**.
 - Implemented a control interface for moving camera and body part motions of droids.
 - Rendered a short animated film using key frame interpolation.
- **An implementation of Diverse Motions and Character Shapes for Simulated Skills**
 - Implemented the Diverse Motions and Character Shapes for Simulated Skills paper using **Box2D physics engine**.
- **Interrupt based Application Launcher in Linux Kernel**
 - Created and added a **kernel module** that allows for assigning and re-assigning key combinations, mouse clicks and timer to launch applications.

Courses taken

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| • Algorithms and Complexity | • Advanced Computer Networks |
| • Advanced Distributed Computing - Engineering a Cloud | • Foundations of Network Security and Cryptography |
| • Kernel Programming | • Foundations of Intelligent and Learning Agents |
| • Machine Learning | • Advanced Computer Graphics |
| • Computer Graphics | |

Technical Skills

- **Programming Languages:** GoLang, Haskell, C, C++, Java, Matlab.
- **Scripting Languages:** Bash, Python, JavaScript, Awk, Sed.
- **Utility Tools:** GNUplot, Git, Vim, Eclipse, L^AT_EX.

Achievements and Activities

- **Rank 10** among **104** students in M.Tech CSE 2015-17 batch, IIT Bombay. (2016)
- Secured All India **Rank 6** among **115425** students who appeared for **GATE 2015**. (2015)
- Completed **240 hours** of community service under **National Service Scheme (NSS)**. (2013)
- Secured prestigious **Sir Ratan Tata Trust scholarship** for the year 2012-13 for being among the top three rankers of the IT department at TSEC. (2013)
- Secured prestigious **Sir Dorabji Tata Trust scholarship** for the year 2011-12. (2012)