

## JITHIN PAUL

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*"An enthusiastic graduate Student in Computer Science currently looking for **Full Time Opportunities** who has more than 4 years of industry experience in software design and development. A committed team player with excellent problem solving and communication skills, with proven success in various academic and job-related engagements.*

### EDUCATION

**Master of Science, Computer Science**, University of Texas at Dallas, United States    **GPA: 3.91/4.0**    **Aug 2016-present**

- *Coursework:* Statistics for Data Science, Database Design, Machine Learning, Design and Analysis of Algorithms, Big Data, Artificial Intelligence, Software Testing Verification and Validation, Object Oriented Design.
- Graduate scholarship recipient at UTD Erik Jonsson School of Engineering (Obtained a score of 324 in GRE).

**B-Tech., Computer Science**, National Institute of Technology -Calicut, India    **GPA:7.21/10(First Class)**    **Apr 2012**

- *Coursework:* Data Structures and Algorithms, Database Management Systems, Advanced Data Structures, Principles of Programming Languages, Software Design, Web Programming.
- National Institute of Technology-Calicut is one of the premier government Engineering institutes in India.

### SOFTWARE SKILLS

**Proficient :** C++, MySQL, Oracle, Python, Java, OOD.

**Intermediate :** Javascript, HTML5, CSS, Git, XML, JSON, UML.

**Familiar :** Hadoop, jQuery, Web Services, Service Oriented Architecture, Apache Spark, JUnit.

### WORK EXPERIENCE

**Senior Applications Engineer, Oracle India Private Limited, India**

**Jun 2015-Jul 2016**

(C++, SQL, PeopleCode, JavaScript )

- Single handedly designed and implemented a new Japanese HR software called 'My Number' based on an agile based iterative development process, using application level encryption using symmetric technique, Object Oriented Programming, role based security and workflow self service.
- Customer base for the HR Japan product increased threefold in the fiscal following the release of the above application. Received an Oracle Excellence Award for the project.
- Proposed an award winning gamification enabled internal review system where employees could rate the system pages/functionalities within our product, propose changes to them, participate in quizzes etc to win various rewards.
- Mentored and trained new resources in the team, thus preparing them for their respective job roles.
- Delivered product bug fixes and implemented additional functionalities to customers based on their requirements with less than 1% defects.

**Applications Engineer, Oracle India Private Limited, India**

**Jul 2012-May 2015**

(C++,PeopleCode, Java, SQL)

- Key member of the cross-functional team that consolidated the Entity Relationship Diagrams (ERD) model which detailed the table loading sequence for all the components within HCM module which helped optimize system by more than 20%.
- Brought down the defect backlog of a customer by 80% in a span of 1 month whereas the normal average was 15-20% for a team.
- One of the very few in the team of 20 members to have worked on all the modules handled by the team.
- Awarded above average rating of 3+ (Exceeding Expectations) at Oracle India for the year 2013 – in just one year after starting my professional career.

## **PROJECT EXPERIENCE**

### **In Memory File System**

**May 2017**

- Built an in-memory file system in C++ that allowed all the basic operations like creating, deleting and moving of files and directories, reading and writing of files etc.
- It uniquely allowed users to specify the memory size limit for the system to prevent dynamic growth and provided an option to write the data from the file system to disk at periodic intervals.

### **Relational Database management system**

**May 2017**

- Implemented a fully functional Relational Database management system in Python that could handle basic SQL queries such as selection, projection, join and aggregation efficiently using B+ trees.

### **Test Suite Prioritization Tool**

**Apr-May 2017**

- Created a time-aware total/ additional test prioritization tool in Java using ASM byte-code manipulation framework based on the statement coverage metric.
- This tool generated the order of execution of the test cases and then scheduled them according to the total time allotted for Regression Testing.

### **Pump it Up- Data Mining the Water Table**

**Apr-May 2017**

- Successfully predicted the operating condition of water pumps in Tanzanian villages as part of a competition held on drivendata.org in which we were ranked in the top 50.
- An ensemble of Linear Regression, Ada Boosting, Random Forests and Deep Learning Networks were used .

### **Tweet Classification**

**Mar-Apr 2017**

- Implemented an algorithm in Python to cluster tweets on boston bombings to measure the sentiment analysis by utilizing the Jaccard Distance metric and K-means clustering algorithm.

### **Machine Learners for Classification- A comparative Study**

**Feb-Mar 2017**

- Implemented machine learning techniques including ID3 decision tree with pruning and random selection (C++), Neural Net(C++), k- Nearest Neighbours, ensemble techniques, Multinomial Naive Bayes (Python).
- They were compared with each other by testing their effectiveness on real world raw data sets after data pre-processing/ feature engineering (Python).

### **Object Oriented Design for Payroll System**

**Sep-Nov 2016**

- Spearheaded the design and development of a payroll and HR application based on Agile Development Process, leveraging the concepts of Object Oriented Design including Use case models, UML, Design patterns etc.
- Our application facilitated the easy management of human resources, payroll calculation and payslip generation for small to medium scale enterprises.

### **Asynchronous Canvas Sharing**

**Apr 2016**

- Implemented a web based tool where multiple users could share a drawing board and make changes in real-time. It included a text chat with predictive texting.
- We extensively used SVG, jQuery and MYSQL to develop this application modeled on Client-Server architecture.

### **www.1000smiles.in**

**Mar 2014**

- Designed the website and used SEO techniques to improve its visibility.
- 1000Smiles is an NGO based in India that focuses primarily on the welfare of underprivileged children.

## **ACHIEVEMENTS AND AWARDS**

- Test Tool Development Competition (2nd prize), University of Texas at Dallas **Apr 2017**
- Graduate Scholarship, University of Texas at Dallas **Aug 2016**
- Oracle Certificate of Excellence, Oracle Corporation **Feb 2016**
- Co-authored a technical paper on implementing a low cost virtual supercomputing facility in a campus, which won numerous accolades. **Sept 2011**
- Top 0.5%ile - All India Engineering Entrance (AIEEE) examination. **May 2008**
- Top 0.3%ile - All India Pre-Medical Test (AIPMT) examination. **May 2008**

## **LEADERSHIP EXPERIENCE AND ORGANIZATIONS**

Volunteer and Co-Founder, 1000Smiles.in (NGO), India

**Dec 2013-Jul 2016**