

RONAK BIPIN THAKKAR

ronakthakkar87@gmail.com | 619-317-6620 | San Diego, CA

<https://www.linkedin.com/in/ronak-thakkar-080687/>

Summary

- Software professional having 9+ years of experience of leading and managing software components independently. I Possess strong technical and functional expertise and have designed reusable and efficient software modules.
- Have detailed knowledge of the entire SDLC and have delivered many major enhancements individually or as a team for a product-based software firm.
- Specializing in the backend technologies and frameworks like Java, Hibernate, Spring and have worked with multiple relational as well as NoSQL database stacks.
- Experienced in leading a team of 3-4 resources.
- Currently looking for full time software development related positions in the United States of America.

Work Experience

San Diego State University - San Diego California.

Instructional Student Assistant

Sep 2020 - Dec 2020

Teaching Assistant

Jan 2021 - Present

- Responsible for problem solving, grading and helping student during the office hours of Computer Security and Computer Vision courses.
- Responsible for teaching Intermediate Computer Programming in Java to a class of around 60 students. The responsibilities include delivering lectures, conducting office hours and managing the class.

Vistaar Systems Pvt. Ltd. – Mumbai India.

Trainee

Mar 2010 - Mar 2011

Software Engineer

Mar 2011 - Dec 2014

Senior Software Engineer

Jan 2015 - Dec 2017

Technical Lead

Jan 2018 - Aug 2019

- Responsible for programming, documentation, process compliance and process improvement of the product.
- Developed software components using appropriate data structures and algorithms with object oriented and reusable designs spanning across multiple platforms.
- Designed and implemented access control framework for the product.
- Designed and developed forgot password functionality for OPEN-LDAP authentication mode.
- Implemented the support for materialized views type of database objects in the product.
- Implemented weighted average functionality in product API.
- Owner of defect merge process, including internal as well as defects raised by customers.
- Part of migration team to migrate database of internal ticket tracking system "TRAC" from SQL-Lite to MySQL.
- Analyzed architectural issues caused due to disaster recovery switchover at application layer as well as database failover cases for databases deployed with Amazon RDS Multi-AZ mode.
- Investigated efforts of migration of MySQL database to Amazon Aurora DB for existing customers.
- Researched the OWASP Enterprise Security API (ESAPI) and have retrofitted security into existing Vistaar product.
- Handled few of the product modules to prevent cross site scripting, DOS and SQL injections attack.

Technical Skills

▪ Professional experience

Languages and frameworks: Java, Hibernate, Spring and JavaScript, Html, CSS, Ajax.
Database: Oracle, MSSQL, MYSQL, Advance SQLs.
Reporting Technologies: Jasper, ELK technologies (Elastic / Logstash / Kibana).
Technical Aspects: OOPS, AOP, web services, security, authentication, authorization.
Build and version control Tools: Gradle, ANT, Bit Bucket, Git Hub.

▪ Academic experience

Languages and frameworks: Python, Django, React, Node, Express, jQuery, GraphQL.
Database: MongoDB.

Academic Qualifications

- **Master of Science in Computer Science.** Aug 2019 - May 2021
San Diego State University, San Diego CA. CGPA: 3.9/4
- **Bachelor of Engineering in Information Technology.** July 2005 - May 2009
Mumbai University, Mumbai India First class with Distinction

Academic Projects

- **Spread Sheet (Fall 2019):**
As a part of advanced object-oriented design and programming class, a spread sheet with limited number of cells having MS excel like features such as formula evaluation, dependency on other cells and undo was implemented in Java. The formula evaluation of the cells was done using Interpreter design pattern, the dependency on other cells was evaluated using Observer design pattern, undo mechanism was taken care using Memento design pattern, also the toggle between the formula and value mode was handled using State design pattern.
- **Word Processor (Fall 2019):**
As a part of advanced object-oriented design and programming a mini word pad like implementation was done to understand the amount space saved by using a flyweight pattern. The character and font objects were created using Abstract factory pattern.

Related Coursework

Advanced object-oriented design and programming	Algorithms and their analysis
Big data tools and languages	Computer security
Applied computer vision	Combinatorial Algorithms
Machine Learning	Software engineering
Advanced Topics in Web and Mobile Applications	Full Stack Development
Research project in Machine Learning.	