

## Tarun Vihar Tumati

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### EDUCATION

**California State University**, Northridge, CA

*Sep 2021 – Present*

*Master of Science in Computer Science*

Related Courses: Database Design , Web Development, Data Structures and Algorithms

**Vellore Institute of Technology**, Vellore, India

*Jul 2015 – May 2019*

*Bachelor of Technology in Information Technology*

### TECHNICAL KNOWLEDGE

**Programming Languages and DBs:** Java, JavaScript, Ruby, Python, Oracle, MySQL, SQL Server, MongoDB, DynamoDB

**Web-Development :** HTML5, CSS3, JavaScript, AngularJS, ReactJS , NodeJS, Spring Boot

**Devops & Deployment:** Jenkins, Heroku, AWS Services (S3, Lambda, API Gateway, Batch) , Chron Jobs

**Project Management:** JIRA, Git, GitHub

### WORK EXPERIENCE

**HSBC Technology** , Hyderabad, India

*Software Engineer*

*July 2019 – July 2021*

- **Reports & Files Download:** Built a new feature to download the reports which allow commercial customers to review transaction history and track payments.
- Integrated PSD2 module that involves two factored authentication in the payment flow to make transactions more secure and reliable.
- Refactored (Optimized & fault-tolerant) payment channel to process bulk payment (NEFT, ACH, etc).
- Automated and configured Jenkins pipelines, schedulers to build, test and deploy on server.
- **Resource Management System:** Designed and developed a resource management system that allows to track employees' demand & supply, and their leave plans using Oracle, React js, Hibernate, Spring Framework.
- Implemented Scrum-based development methodology that includes daily stand-ups, regular sprint review, and retrospectives to illustrate work with a cross-functional team using agile development processes.

**Vassarlabs**, Hyderabad, India

*Jan 2019– May 2019*

*Intern*

- Worked on full-stack technologies in building data analysis platforms in various sectors like education and water management.
- Developed the reusable modules/ components & integration with REST APIs and resolved minor bugs.
- Implemented RESTful services to cater to the needs of common queries using elastic search Java Client and Spring boot.
- Reduced development workload across all projects through a standardized table directive using Angular.

### ACADEMIC PROJECTS

**Enenergy-Efficient Algorithms for Dynamic Virtual Machine Consolidation**

*Jan 2019– May 2019*

- Various algorithms were published related to virtual machine provision, host overload detections, etc.
- CloudSim, a JAVA-based framework used for modeling and simulation of cloud computing infrastructures and services.

#### ShopAround

- A web application allows the user to create and manage multiple shopping lists and compare prices from different online stores in the area
- This is being developed using ReactJS for UI, Redux for Client State Management, Django for Backend, and MongoDB as a datastore.