Varun Kumar Ejanthkar

varunkumar.ejanthkar@sjsu.edu
https://www.linkedin.com/in/varun-kumar-ejanthkar-049481b9/
Mobile: +1-669-226-8644

EDUCATION

SAN JOSE STATE UNIVERSITY   **San Jose, CA, USA**

Master of Science in Computer Software Engineering   *January 2021 – December 2022*

(Cloud Technologies, Data Mining, Enterprise Distributed System, Enterprise Application Development, Software Systems Engineering)

JNTUH College of Engineering Hyderabad   **Hyderabad, Telangana, India**

Bachelor of Technology in Computer Science & Engineering   *September 2012 – June 2017*

(Object Oriented Programming, Database Management, Operating Systems, Design and Analysis of Algorithms, Data Structures)

SKILLS

Programming Languages: Java, JavaScript, C#, Python, PHP, C, C++, TypeScript

Databases: SQL Server, MongoDB, MySQL, Redis, MongoDB, Oracle

Frameworks: NodeJS, ASP .Net, ReactJS, ExpressJS, Spring Boot, Spring MVC, RESTful API, JMeter, Entity Framework, Angular

Web Technologies: HTML5, CSS, Bootstrap, Redux, Apache Kafka, GraphQL, JWT, PassportJS

Cloud Technologies: DevOps - AWS (EC2, RDS, S3), Azure, Docker, GCP

Software Methodologies: Agile (SCRUM, XP, Kanban)

Tools, Servers, and Others: Apache Kafka, Redis, Eclipse, Git, Visual Studio, SSMS, Jira, Maven, Tomcat, Postman, OOPS

WORK EXPERIENCE

Wells Fargo India Solutions   **Hyderabad, Telangana, India**

Apps System Engineer 2   *July 2017 – April 2020*

- **DEPP (Document Extraction and Processing Platform):** Designed and Developed end to end solution of data extraction from tax forms (1040, 1065), Income Statements and Rent Rolls for the Wholesale Lines of Business (LOB). Used OCR (Optical Character Recognition) for document extraction. Human intervention in data entry is reduced up to **80%** by this tool and it is leveraged by many teams in our LOB.
- Reduced the processing time of OCR for the documents found in database **by 100%** by implementing **caching** functionality at document upload step which resulted in the reduction of the overall document extraction and processing time **by 90%.**
- Eliminated the manual selection of the extracted values by the end users up to **90%** by implementing an **Identifier and Region based auto selection tool**, where the teams just need to configure the labels, position for the data for once and data will be extracted automatically for all the documents mapped with this template.
- Reduced the processing time of large number of files **by 100%** by implementing **Batch Scheduling,** where user can dump all the documents to be extracted in a public shared folder at once and a batch is run every night which picks up all the documents present in that shared folder and extracts the data from the documents.

PROJECTS

Autonomous Vehicle Cloud Application: *Fall 2021*

- Created an end-to-end cloud application for autonomous car rental services helping autonomous cars to be used as rental services.
- Designed python scripts to simulate autonomous car services through Carla Simulator.
- Real time data was displayed in the application using Sockets improving user experience.
- **Technologies used**: Carla Simulator, Python Scripts, ReactJS, ExpressJS, Bootstrap, Sockets.

Vaccination Management System: *Fall 2021*

- Built a Vaccination management system where user can view vaccination due and book appointments to the users.
- Created time mimicking for the user to move to a future date to view vaccination dues enhancing testability of the application.
- **Technologies used**: Spring Boot, Spring MVC, ReactJS.

Reddit Simulation: *Spring 2021*

- Developed a distributed scalable full-stack application, a simulation of Reddit, and hosted it on AWS on multiple client and server instances and used Elastic Load Balancing for these instances.
- Enhanced throughput **by 30%** by employing Redis and Database pooling and using Apache Kafka as middleware which decreased API call drop rate by 35%.
- Tested the APIs with 100, 200, 300, 400 and 500 concurrent users - with and without connection pooling using JMeter and Mocha.
- **Technologies used**: JavaScript, React JS, Bootstrap, ExpressJS, AWS, NodeJS, PassportJS, JWT, Kafka, Redis, MongoDB, MySQL, Socket Io for real time messaging in Reddit application.