Supriya Jain

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SUMMARY

- 6+ years of diversified experience in IT with proficiency in C++, Java, JavaScript, Cloud technologies.
- Well versed with optimal usage of data structure and object-oriented software design patterns.
- Specialized in Cloud computing and Distributed system.

EDUCATION

Master's in Software Engineering - San Jose State University, CA *(GPA 4.0)* *May 2020*
Bachelor of Engineering in Information Technology – University of Mumbai *May 2011*

TECHNICAL SKILLS

Programming Languages C++, Java, J2EE, Unix Shell Script, JavaScript
Framework/Tools/Libraries: Spring 4.x, SVN, Git, ExpressJS, Junit, JMeter, Kafka
Databases & ORM: MYSQL, MongoDB, Redis, Sequelize, JPA
Cloud Platform: Amazon Web Services, Google Cloud Platform.
Web Technologies: HTTP, REST API, PHP, HTML5, CSS3, Bootstrap, cURL, AJAX, ES6, ReactJS, Redux, NodeJS, PassportJS, MochaJS

PROFESSIONAL EXPERIENCE

Technical Consultant ***Larsen and Toubro Infotech, Mumbai, May 2016 – Mar 2017***

- Advocated and implemented cloud-based Dynamics CRM and FieldOne desktop and mobile solutions to improve efficiency in scheduling and tracking of service orders.
- Programmed a WPF application using C#, HTML5 and REST APIs to execute on-demand process beyond the CRM.
- Augmented client satisfaction by expeditiously resolving challenges faced onsite in an extreme time-sensitive environment.

Technology Analyst ***Infosys Technologies, Pune, September 2011 – May 2016***

- Designed Unix compatible auto resolution handlers in provisioning and networking, leading to optimal usage of resources.
- Streamlined communication between Java and C++ modules through socket services and SOAP requests and responses.
- Spearheaded the workload reduction project by infusing automation upto 80% using C++, thereby leading to $400k annual savings for the client.
- Achieved the highest client satisfaction rating of 7/7 with the project being identified as "Business Value Add" by client.
- Orchestrated organized and structured knowledge transfer sessions for new hires with an emphasis on increasing productivity.

ACADEMIC PROJECTS

Simulation of Canvas- Learning management System (Spring 2019): MERN Stack| Redux| Passport| Mocha| Redis| AWS| Kafka

- Developed a distributed single page application using MERN stack for revolutionizing the we way we educate.
- Enabled connection pooling for faster server response and used Redux for client-side state management.
- Secured the application using JSON web token (JWT) and PassportJS for accessing different resources and routes.
- Used Redis for caching the DB queries and achieved the low latency performance for read heavy operations.

Custom Linux Kernel (Spring 2019): Linux| Advanced Operating Systems| Hypervisor| x86| KVM| Virtualization

- Building custom changes into the Linux Kernel to perform specific activities such as editing the kvm hypervisor module and printing virtualization capabilities of a processor.

Travel-Live-Create Marketplace (*Fall 2018):* PHP| OAuth| Cookies| Session Management| Single Sign-On| cURL

- Developed a common cross platform Marketplace that integrates products and services from multiple e-commerce websites.
- Implemented various user-friendly features such as Single Sign-on, OAuth, track most visited, top rated products for the marketplace as well as for individual website. Formulation of OAuth helped reducing the traffic for user login by 30%.

Game of Warrior (*Fall 2018):* Greenfoot| Java 8| OO Design Patterns

- Designed and implemented a 3-D game, using Greenfoot API along with Java.
- Administered interaction across players and game components by intensely using object-oriented software design patterns.

Smart Streets (*Fall 2018):* IOT| AWS| Active MQTT broker| Nginx| EC2| RDS| Spring MVC

- Developed an iot-cloud based highly scalable SaaS application to monitor sensors at smart streets in a smart city.
- Set up a large-scale sensor cloud infrastructure and used a concept of virtualization and real time simulation of physical sensors.
- Replicated single DB instance into multiple replica sets with master-slave configuration for High Availability.
- Achieved high scalability using AWS Autoscaling group and load balancing using Nginx load balancer.
- Decoupled the system using ActiveMQ in front of write heavy DB servers to prevent bottleneck. (40% performance increase)