SHANTANU PAPAL

Seattle, WA, USA | shantanupapal7@gmail.com | (669) 288-3171

EDUCATION

Master of Science in Computer Software Engineering

San Jose State University, California, USA

Bachelor of Technology in Computer Engineering

Vishwakarma Institute of Technology, Pune, India

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C, C++, Go

Web Technologies: HTML, CSS, Bootstrap, Rest API, GraphQL, Apache Kafka, Flask, Spring Boot

Frameworks: NodeJS, ReactJS, Redux, Express, PassportJS, Django

Databases: MySQL, Firebase, MongoDB, PostgreSQL, Redis **Cloud Technologies:** AWS, Heroku, Docker, Kubernetes

AWS Services: EC2, S3, RDS, Lambda, Step Functions, CloudWatch

Testing Tools: JMeter, Mocha, Mockito, Selenium

WORK EXPERIENCE

Software Development Engineer | Amazon.com Inc., Seattle, U.S.A.

Sep 2022 - Present

Aug 2022

Oct 2020

GPA: 3.7/4.0

GPA: 3.8/4.0

- Developed software on ReactJS, MIX & Fern frameworks for Kindle Book Store team of 8 dealing with CBBE
- Generated 10 personalized suggestion widget groups that made easier for Kindle customers to choose an ideal book
- Built 2 new APIs to sync up string translation process in targeted locales for video and hero rotator cards
- Presented and augmented the number of pipelines for production in deployment for card creation process by adding a pre-production gamma stage
- Created a new infrastructure to assist the on-call team by setting 7 necessary alarms to monitor key quality and technical performance metrics related to latency and other aspects

Software Engineer | G.S.E. Red, Pune, India

Jan 2020 - Dec 2020

- Planned and led single-page application to display the best deals from 8 e-commerce websites using web-scraping techniques and streamlined a search feature to enable users to find deals on specific products or brands
- Demonstrated and designed a custom CMS that manages a product catalog of over 5,000 items across 50 categories, resulting in a 50% reduction in time spent on product management
- Authored and implemented a newsletter and social sharing feature to enable users to stay updated on new deals and easily share with friends
- Applied Redis caching and pagination to improve website performance, resulting in a 40% reduction in database load times and a 25% improvement in page load speeds and user experience

Software Engineer | Uniken Inc., Pune, India

May 2018 - Aug 2018

- Collaborated with product and testing teams to develop an android application to initiate automation testing of REL-ID Library (Uniken's patent), resulting in reduced manual testing by 70%
- Implemented a feature to provide a testing report summary along with test execution results and errors
- Formed 2 test plans with 12 test cases for new software releases and documented significant software features
- Acquired in-depth knowledge & experience on device testing, accessibility, latency testing along with Automation

ACADEMIC PROJECTS

Simulation of Reddit | Express, React, MongoDB, Kafka, Redis, AWS (EC2, S3), PassportJS

Sep 2021 - Nov 2021

- Co-ordinated with a team of four and built a three-tier, highly scalable web application similar to Reddit
- Defined and managed front-end functions and 20+ backend APIs for features such as set up community, showing nested comments, searching for a community, and upvote/downvote posts or comments
- Integrated Kafka as a middleware to handle concurrent requests on 14 services, enhancing throughput by 20%
- Leveraged Redis to store frequently accessed information, resulting in reducing response time on APIs by 47%
- Deployed application on AWS with front-end, back-end, and Kafka on separate instances with a load balancer

Simulation of Splitwise | Node, React, Redux, MySQL, Mocha, Chai, Heroku, GraphQL

Apr 2021 - May 2021

- Autonomously developed a prototype of Splitwise website enabling users to split bills and track expenses
- Created interactive front-end with state management in Redux and back-end APIs to support 7 features viz. forming groups, adding expenses, displaying recent activities, settling up debts, and multi-currency support
- Enforced request authentication with JWT and data validation of 15 back-end APIs by JOI validator
- Improved response time by 30% by connection pooling, deployed web-application on AWS EC2
- Performed load testing with JMeter for 10,000 concurrent users and wrote unit tests with Mocha and Chai