

Sankalp Tiwari

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SKILLS

Languages: Java, JavaScript, Python, Go, Dart

Web Technologies & Frameworks: REST APIs, SpringBoot, Flask, Docker, Kubernetes, Express.js, React, Node.js, Apache Kafka, AJAX, Django, Angular, Flutter, HTML, CSS

Databases: SQL, PostgreSQL, SQLite, MySQL, NoSQL, MongoDB

Tools & Services: Git, Postman, AWS(EBS, EC2, S3, RDS, Autoscaling, Elastic Load Balancing, CloudWatch, API Gateway), Agile

WORK EXPERIENCE

Software Engineer – Stetig Consulting, Pune, India

June 2020 – June 2022

- Contributed to the development of a Salesforce-based SaaS product, with a prime focus on delivering comprehensive Customer Relationship Management (CRM) solutions using Agile methodologies
- Developed multi-modular **REST APIs** to handle path-based routing using an **API Gateway**, supported by **AWS Auto Scaling** and **load balancers**, ensuring high availability and performance
- Utilized **Kafka** to enable real-time monitoring of sales tracking and ticket management across diverse microservices, ensuring the delivery of accurate information to users at all times
- Built an **AI chatbot microservice**, integrated customer support REST APIs, and analyzed interactions for enhanced engagement, quicker responses, and improved support efficiency **decreasing the average response time by 84%**
- Developed a **Java microservice** using **Spring Boot** and **Apache PDFBox** to generate personalized Client Connect PDFs, integrated REST APIs for data sources and customization, **resulting in a 23% increase in client sales**
- Led cross-functional team initiatives and collaborated with multiple stakeholder teams to seamlessly transition client services from legacy SOAP APIs to modern REST APIs, enhancing system efficiency and user experience
- Developed comprehensive test plans, and test cases to ensure the reliability and performance of the products
- Participated in code quality optimization and code reviews for 4-member teams
- Mentored numerous peers and new team members, successfully helping them ramp up within the team

PROJECTS

Back2Office, [GitHub](#)

Java | ReactJS | Spring Boot | JWT | MySQL | AWS (EC2, RDS, S3, EBS)

- Created an end-to-end scalable Office Space booking application, encompassing features such as searching offices, booking spaces, editing/canceling bookings, and adding amenities through the development of **24 APIs**
- Deployed Back2Office to **AWS EC2** along with a load balancer, effectively distributing network traffic and achieving a **27% improvement in response time** and scalability
- Utilized **Spring Security** to fortify the microservices and REST APIs, ensuring their security and resistance to tampering, thereby maintaining the integrity and robustness of the Back2Office application

Recipize, [GitHub](#)

Python | Dart | Flutter | OAuth | REST APIs | TensorFlow

- Developed a user-friendly microservices-based application leveraging image recognition technology to offer personalized recipe suggestions based on scanned ingredients
- Implemented an efficient algorithm for recipe recommendations that processed food item identification in an average time of **0.5 seconds per image**
- Improved user experience by integrating the application with a comprehensive database of over **5,000 recipes**
- Implemented **OAuth-based authentication** to enable users to seamlessly sign in and create accounts using their existing credentials from platforms like Google and Facebook

Microblog, [GitHub](#)

Python | Flask | JavaScript | HTML | SQLite

- Created a **scalable full-stack web application** modeled after a popular blogging platform, employing modern front-end and back-end technologies along with version control
- Added essential features such as web forms, user authentication, profile management, avatars, follower system, pagination, and support for various date and time formats using the latest web technologies
- Achieved an average **database query execution time of 8 ms**, ensuring swift content retrieval
- Enhanced user experience by incorporating localization and internationalization capabilities, making the application accessible to a global audience

EDUCATION

M.S. Software Engineering, San Jose State University, GPA: 3.7 / 4.0

Aug 2022 – May 2024

B.E. Information Technology, Shri Ramdeobaba College of Engineering, GPA: 7.4 / 10.0

Aug 2016 – May 2020