

Vatsal Bhanderi

San Jose, CA | +14084780620 | vbhanderi6@gmail.com | [LinkedIn](#) | [Github](#)

EDUCATION

M.S., Software Engineering

Aug 2022 - May 2024

San Jose State University, San Jose

- Relevant coursework: Distributed Systems, System Design, Data Mining, Web/Mobile Technologies

B.E., Computer Science

July 2015 - Aug 2019

Birla Institute of Technology and Sciences (BITS), Pilani, India

- Relevant coursework: Data Structures, Algorithms, Object Oriented Design, Operating Systems, Database Systems

TECHNICAL SKILLS

Programming Languages: Java, Python, Javascript, C++, HTML, CSS, Kotlin, XML, Go

Frameworks and Web services: Spring, Django, gRPC, REST APIs, GraphQL, SOAP Web services

Databases: SQL - MySQL, PostgreSQL; NoSQL - MongoDB, Redis

Methodologies and Tools: AWS, Agile, Linux, Jenkins, Docker, Kubernetes, Android Studio, Git, Jira, JMeter, Kafka

EXPERIENCE

Software Developer II, FICO, Bangalore

Nov 2020 - Jun 2022

- Implemented Python microservices on AWS to enhance SMS support, seamlessly integrating APIs from multiple SMS vendors and boosting message delivery speed by 40%.
- Engineered AWS architecture scripts using AWS CloudFormation and Ansible, to ensure rapid deployment and saving 25% on infrastructure setup time.
- Optimized application testing and deployment processes by formulating CI-CD Jenkins pipelines and developing Linux shell scripts, resulting in a 30% workload reduction.
- Bolstered application security by addressing XSS, SQL Injection, and CSRF vulnerabilities, strengthening overall security by 60%.

Software Developer I, FICO, Bangalore

Jun 2019 - Nov 2020

- Developed REST APIs using Spring framework and SOAP web services, including documentation with Swagger.
- Revamped application code to utilize Spring Hibernate instead of native SQL Queries, enabling compatibility with multiple in-memory, and cloud databases, making it 40% more compatible for clients.
- Streamlined end-to-end application testing by creating frameworks in JMeter, reducing testing time by 70%.

Software Engineering Intern, HERE Technologies, Mumbai

Jun 2018 - Dec 2018

- Spearheaded development of an Augmented Reality mobile app deploying Unity and C# promoting local attractions, and achieving a 25% increase in user engagement.
- Devised application employing user's GPS coordinates. Integrated features such as Mini-Map, AR animations depicting distance, direction and type of restaurant, to guide users to desired places of interest.

PROJECT EXPERIENCE

Android Application - CaloriFit, A meal tracking and fitness app

Jan 2024

- Created a comprehensive food tracking app leveraging Terra API for real-time smartwatch data integration, enabling dynamic calorie tracking and personalized fitness recommendations.
- Implemented a Python Flask backend with MongoDB for efficient data handling, including user meals, image storage.
- Integrated Llama-2-7b-chat model and LogMeal APIs to provide AI-driven meal suggestions and accurate calorie analysis from images, enhancing user engagement and dietary management.

Distributed Systems, File Storage System

May 2023

- Devised a distributed file storage leveraging gRPC and protobuf, increased data processing speed by 50%, as compared to REST APIs.
- Conducted ETL on data; added querying mechanisms for data search; supplemented fault tolerance to dynamically rebalance ring topology architecture upon any failures employing Apache Zookeeper.

Full stack application, Hotel Management Portal

Nov 2022

- Developed a highly scalable and secure online reservation system, using React, Java Spring Boot.
- Accomplished JWT authentication, deployed application on AWS EC2 instance, leveraged S3 for storing images, RDS for MySQL, and caching using REDIS.

CERTIFICATIONS

- AWS Developer - Associate | Amazon Web Services - NFRRF1HCVNQQQ090