

SHIVANI GHANASHYAM BHALERAO

San Jose, CA - 95112

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Objective

Graduate Computer Science student with over 3 years of software engineering experience, seeking a challenging position to leverage technical proficiency and work experience to contribute to the development of innovative and efficient software solutions.

Experience

Meta Platforms, Inc

May 2022 – Aug 2022

Software Engineer Intern

Menlo Park, CA

- Developed a permission management feature for the MBS web and mobile application using **React, React Native, GraphQL, and Hack**, resulting in a **95%** efficiency increase in managing non-business user permissions
- Implemented a restricted permission management feature for business employees using **React Native, GraphQL, and Relay** that led to **97%** efficiency increase to manage user permissions by the employees.
- Proactively contributed to feature ideation and suggested **4 improvements** during a collaborative dogfooding session with the Facebook Lite design team.
- Presented the newly delivered features to over **250** engineers and leaders of MBS, demonstrating strong communication and technical abilities.

Tata Consultancy Services

June 2019 – June 2021

Assistant Systems Engineer

Mumbai, MH

- Developed a deal reservation modification system from end-to-end using **Angular, Java, Spring and SQL**, resulting in **62%** improved efficiency in the reservation modification process.
- Designed and executed a critical extension and batch process to solve 'car rental rate inconsistencies' between the admin portal and reservation system using **Java, Angular, and SQL**, resulting in a **66%** increase in system reliability and consistency.
- Led an 8-engineer team in executing a comprehensive testing plan for 'car rental rate inconsistencies', ensuring on-time delivery and a **100%** coverage of test cases.
- Designed and implemented a statistical model for the Utilization Management System with a focus on achieving over **95%** accuracy in calculating the rental car fleet's vehicle utilization routine.

Northeastern University

Spring 2022, Fall 2022 – Spring 2023

Teaching Assistant

San Jose, CA

- Conducted 1:1 sessions with the students to help them apply algorithmic techniques like **greedy algorithm, dynamic programming, searching, sorting**, and understand their complexities using various data structures like linked lists, hash tables, graphs, trees, maps.
- Guided students in database modeling, creating the database server, web app server, SQL scripts, and application development.

Projects

Flexible Calendar Search | *Flask, Elasticsearch, Python, Google Collab, Git*

December 2022

- Developed an efficient calendar text search application based on a mathematical model of the synonym similarity score and Levenshtein distance combination, used **NLP techniques** to enable complex text search queries and ranked results, that lacked in widely used calendar applications, using **flask** for front-end and **Elasticsearch** for back-end and indexing.

AI game player | *Python, Git*

May 2021

- Built AI agents for the connect-4 game using heuristics, decision tree, minimax with alpha-beta pruning, monte carlo and Q-learning algorithm as a part of the foundation of Artificial Intelligence course and found **minimax agent and monte carlo agent** to be the top 2 performing agents for this use case.

E-Commerce Application | *Amazon Web Services (AWS)*

May 2023

- Successfully implemented a robust AWS infrastructure for an e-commerce application, incorporating text recognition for product tagging using **Amazon S3** and **Lambda**. Set up and integrated an RDS database, and configured a **Virtual Private Cloud (VPC)** with public and private **subnets, internet gateways, and NAT** to ensure secure and efficient operations.

Supply Chain Management using Blockchain

May 2023

- Conceptualized and proposed the use of blockchain and some of the sensors in dairy supply chain to increase consumer trust by eliminating frauds, reducing errors, modifying way of management, and increasing transparency. This study was published in the IEEE journal (Electronic ISBN: 978-1-5386-7799-5)

Technical Skills

Languages: Java, C, Python, C++, JavaScript, SQL, HTML5, CSS3

Web Technologies: Spring, Angular, Android Studio, React, React Native, Django, Flask, Elasticsearch, Mercurial, GitHub, Git, SVN, Docker, CI/CD, SOAP, REST API, GraphQL, Postman, JIRA

Database Technologies: MySQL, SQLite, Redis, DynamoDB

Cloud Technologies: Google Cloud Platform (GCP), Amazon Web Services (AWS)

Education

Northeastern University | *GPA: 3.96 / 4.00*

September 2021 – May 2023

Masters of Science in Computer Science

University of Mumbai | *GPA: 8.15 / 10.00*

July 2015 – May 2019

Bachelors of Engineering in Information Technology

Relevant Coursework: Masters | *Programming Design Paradigms, Algorithms, Foundations of Artificial Intelligence, Database Management Systems, Mobile Application Development, Information Systems, Fundamentals of Cloud Computing and Computer Systems.*