

SHARVIKA NITIN KULKARNI

Location: CA | Phone: +1 (562) 713- 9855 | Email: sharvika.kulkarni05@gmail.com | <https://www.linkedin.com/in/sharvikakulkarni> | <https://github.com/Sharvika0504> | <https://sharvika-portfolio-1409d55bac9d.herokuapp.com/>

EDUCATION

California State University Long Beach, M.S., Computer Science

CA, USA

Coursework: Advanced Data Structures & Algorithms, Advanced Artificial Intelligence, Advanced Computer Architecture, Distributed Computing

Aug 2022 – May 2024

University of Pune, B.E., Computer Engineering

Pune, India

Coursework: Database Management System, Web Technology, Object Oriented Programming, Machine Learning, Operating System, Computer Networks

Aug 2015 – May 2019

PROFESSIONAL EXPERIENCE

Institutional Research & Analytics, California State University Long Beach

Long Beach, CA

Software Engineer Intern

Jan 2023 – Jul 2023

- Redesigned a Django application for a student financial aid reporting tool, enhancing data management accuracy for over **2,000 student** and **report generation performance by 20%** while directing its **migration to AWS**, utilizing RDS and Lambda for scalable, cost-effective operations.
- Streamlined financial aid data management and reporting for College of Engineering students by engineering scalable SQL and PL/SQL procedures, **reducing data retrieval time by 30%** and ensuring ACID compliance.

Tata Consultancy Services Ltd

India

Systems Engineer – Developer

Apr 2021 – Jun 2022

- Resolved slow response times and inefficient payment processing** by upgrading the e-commerce web application using Java, Spring MVC, JPA, and Security (JWT and OAuth), enhancing shopping cart and payment processing, improving response times by 30%, and supporting **10,000 daily transactions**.
- Addressed low customer retention by overhauling the backend functionalities for **customer loyalty programs** and **discount management**, leading to a **20% increase repeat purchases**. Employed multithreading and caching in **30+** microservices, boosting data retrieval speed by 25% and user capacity by 50%.
- Enhanced code performance by processing an additional **500 transactions per minute** through **multithreading** and **fine-tuning REST APIs**, ensuring robustness with unit testing (JUnit) and API testing (Postman, SOAPUI).

Amdocs Development Center India

India

Software Engineer

Jun 2019 – Apr 2021

- Crafted complex server-side logic for a telecom application using Java, Spring Boot, JPA, and Spring Security, **increasing system efficiency by 30%**. Used Unix commands and PuTTY SSH to **reduce billing errors by 20%** and improve customer satisfaction.
- Tackled performance issue by **query optimization** with advanced SQL and refined REST APIs for **accurate phone pricing** and **monthly installments**, collaborating with cross-functional teams for EPC releases, and **enhancing quality** with Selenium and Postman testing.
- Collaborated within SCRUM for **AWS deployment planning**, configuring IAM, S3, EC2, RDS, and Lambda for secure access management and process automation.
- Awarded the **"Rising Star Award"** for exceptional contributions to project success, significantly impacting deliverables within the first year as a newcomer.

FinIQ Consulting India Pvt Ltd.

India

Full Stack Developer Intern

May 2018 – Jun 2018

- Spearheaded the enhancement of functionalities for in-house MERN stack-based payroll application, implementing clean code practices and scalable solutions for HR operations and streamlined payroll processes, impacting over **200 employees**, and **reducing payroll processing time by 25%**.
- Participated in daily **stand-up meetings** and **sprint** planning sessions, gaining hands-on experience in **agile development** methodologies.

UNIVERSITY PROJECTS

Bug hound Testcase Tracker | React, Django REST framework, MySQL, Python, JavaScript, Tailwind CSS, Docker

- Engineered a test case management application to streamline bug tracking and improve software testing efficiency, resulting in a 40% reduction in issue resolution time.
- Encapsulated the application within Docker for consistent deployment and maintained it via GitHub for version control, facilitating collaboration, ensuring seamless execution, and reducing setup time by 50%.

CloudHR | React, SpringBoot, RESTAPI, MySQL, Amazon Web Services (Cloud), AWS EC2, AWS RDS, AWS S3

- Built an employee management System enabling efficient employee record management, resulting in a 50% reduction in virtual paperwork handling time.
- Executed user registration, login, and file upload features (via AWS S3), and deployed the application on AWS using EC2, RDS, and IAM, achieving a 30% increase in system efficiency and user satisfaction through seamless integration and optimized performance.

Redis Clone (Code Crafters) | Java, TCP, RDB File, Multi- Transactions, Query Execution, Docker, Git

- Developed a Redis clone in Java, implementing core functionalities (PING, SET, GET), a TCP server, and RDB file operations, significantly enhancing skills in event loops, network programming, and protocol design.
- Mastered the multi-transaction support using design patterns, improving server reliability, scalability, and overall system performance.

VOLUNTEERING AND LEADERSHIP

- Opportunity Hack (Remote, USA):** Virtual Software Engineer – Integrated Stripe for donation payment systems using Stripe sandbox and **Flask/Python**.
- TeamUp (Remote, USA):** Backend Developer Mentor – Guiding college students in developing iOS and Android mobile/web application TeamUp **FAST (Flexible App Starter Template)**, documenting best coding practices.

TECHNICAL SKILLS

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

Databases: MySQL, PostgreSQL, PL/SQL, MongoDB, NoSQL, Firebase

Cloud Technologies: AWS (IAM, S3, EC2, RDS, Lambda, RedShift), Google Cloud Platform

Technologies/ Framework: Spring, Spring Boot, React.js, Restful API, Express.js, Node.js, Microservices, Flask, Django, GraphQL, HTML, CSS, jQuery, Angular, XML, JSON, AJAX, Redux, MaterialUI.

Tools: Kafka, Amazon SQS, Selenium, Junit, Postman, SOAPUI, Mockito, Apache Tomcat, Maven, Putty SSH, Docker, Kubernetes, Jenkins, Git, GitHub, Gitlab.

Other Skills: Systems Design, Distributed Systems, Cloud Computing, Agile