

Charika Bansal

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San Jose, CA

EDUCATION

San Jose State University	M.S. Computer Engineering	GPA: 3.5/4	Aug 2022 - May 2024
Chitkara University	B.S Computer Science	GPA: 3.9/4	Aug 2016 - Jun 2020

SKILLS

- **Programming:** Java, Python, C++, SQL, PL/SQL, UNIX/LINUX, Shell scripting
- **Full Stack:** HTML, CSS, Bootstrap, JavaScript, jQuery, Node, Express, MongoDB, React, REST API's, Flask
- **Tools/Frameworks:** Ansible, Docker, Jenkins, AWS, Kubernetes, JWT, NumPy, Pandas, Scikit-learn, Matplotlib, SSL/TLS, Git, Jupyter Notebook
- **Oracle Cloud Technologies and functional experience:** Oracle Integrations (OIC), Oracle Visual Builder (VBCS), Oracle Cloud reports, Oracle Conversions, Oracle Apex, Oracle Framework - ADF, O2C (Order to cash), L2C (Lead to cash), Oracle AME, and Transportation Management (OTM)

WORK EXPERIENCE

Capgemini | *Software Engineer* Sep 2020 - July 2022

- Spearheaded **Oracle Approvals Management (AME)** as a sole offshore resource, resulting in a **50%** decrease in approval processing time
- Supervised **PL/SQL** packages, data fixes, and optimized **SQL** queries with index creation to achieve up to **60%** improvement in the performance of multiple reports, reducing server wait times
- Streamlined **Oracle Transportation Management (OTM)** module, reducing order processing time by **90%** and improving customer satisfaction by **70%**
- Automated freight rate retrieval with **Java** in **OTM**, achieving **75%** faster and **95%** more accurate results
- Awarded with Profitability Award for outstanding contributions, resulting in a **15%** increase in quarterly revenue

SMN Infocom Pvt. Ltd. | *Web Developer Intern* Jan 2020 - Apr 2020

- Developed website layout and user interface using standard **HTML**, **CSS**, and **JavaScript (ES6)**
- Devised **REST API's** in **React** and tested on **Postman**, utilizing **Git** for version control
- Created dynamic web pages with **React**, resulting in a **50%** faster load time and improved user experience
- Deployed **JWT** for authentication and authorization, enhancing web app security by **30%**

San Jose State University | *Graduate Teaching Assistant*

- Graduate TA under Prof. Charan Bhaskar for **Microprocessor Design** course, assisting in assessments, grading and delivering lab lectures.
- Graduate teaching assistant under Professor Vinh-Doan Thoi, for the course **Computer Applications**

PROJECTS

- **Music Editing and Collaboration Platform** (Feb 2023): Implemented a **React**-based web app for music editing and collaboration with audio effects, filters, masks, and augmented reality. Integrated **AWS S3** for cloud storage and **Socket.io** real-time messaging, enabling users to collaborate in real-time. Additionally, incorporated **Redux** for state management and **Stripe** for secure payments
- **Face Mask Detector** (Dec 2022): Led a team to develop a real-time face mask detection system in **Python** using CNN for high-level image content representation. Designed, trained, and fine-tuned the **CNN model**, achieving **95%** accuracy in detecting face masks in video streams while reducing false positives
- **Apartment Hunter** (Oct 2022): Built a full-stack web application using **Java**, **Spring Boot**, and **MongoDB**. Implemented continuous integration and deployment using **Jenkins** for streamlined development workflows. Platform aggregates apartment data from multiple websites and offers a centralized search solution for San Jose State University (SJSU) students. Containerized with **Docker** and deployed on a **Kubernetes** cluster for scalability and high availability

CERTIFICATIONS

- The Complete 2020 Web Development Bootcamp, Udemy
- React - The Complete Guide (including Hooks, React Router, Redux), Udemy