

WORK EXPERIENCE**ACCENTURE, Software Engineer**

Nov 2022 - Aug 2025

- Developed and maintained a modular, **production-grade ReactJS frontend** for a global billing system handling **€10M monthly revenue**, improving billing accuracy and visibility **across 13 international business units**.
- **Engineered a dynamic Contracts module UI with CSV parsing and validation logic using React Hooks, Context API, and Redux Toolkit**, reducing manual onboarding errors by **40%** and improving data upload efficiency.
- Implemented a **secure API communication layer** with **Escher-authenticated REST calls** to **Salesforce** and **Oracle systems**, leveraging **Axios interceptors** and **JWT headers** to ensure data integrity and **compliance across upstream/downstream flows**.
- Designed and optimized the **monthly invoicing and usage calendar UI**, integrating **React Query for caching and lazy loading**; improved invoice data rendering time by **~30%**, enhancing the MEC (Month-End Calculation) cycle efficiency.
- Established frontend **CI/CD pipelines** with **Docker and Jenkins**, automating builds, **ESLint checks**, and **unit testing (Jest + React Testing Library)**, ensuring zero regression during production deployments.
- **Collaborated** cross-functionally with backend and DevOps teams to align React architecture with containerized microservices.
- **Implemented role-based access control (RBAC)** and **session management** on the client-side **using JWT tokens and React Router guards**, ensuring secure access segregation for billing operators, admins, and auditors.

DOTMINDS, Full Stack Developer Intern

Apr 2020 - Apr 2022

- Contributed to the **development of multiple client-facing web applications** using **ReactJS**, and **Laravel, MySQL backend** with a primary focus on **backend architecture** and **REST API development**.
- Designed **normalized and performance-optimized MySQL schemas** for 5+ client use cases. Implemented relational constraints, indexing strategies, and query optimizations to ensure data integrity and system efficiency.
- Built and maintained a **billing and automation system for an NGO** managing **5,000+ members**. Automated room allocation and monthly invoicing for **850+ families**, significantly reducing manual administrative overhead.

EDUCATION**University of Southern California, Thomas Lord Department of Computer Science**

Master of Science, Computer Science (Applied Data Science)

Aug 2025 - May 2027

- **Relevant Coursework** : Applied Algorithms , Software Engineering, Distributed Systems, Applied Machine Learning.

University of MumbaiBachelor of Technology, Electronics & Telecommunication Engg. (**GPA: 3.7**)

Aug 2018 - Jun 2022

- **Relevant Coursework** : Database Systems, Operating Systems, Digital System Design, Artificial Intelligence.

TECHNICAL SKILLS

- **Programming Languages:** Java, CPP, Python, PHP, JavaScript, TypeScript.
- **Frameworks/Libraries:** ReactJS, Redux Toolkit, Laravel, SpringBoot, TensorFlow, Scikit-learn.
- **Databases:** MySQL, Firebase, MongoDB, Hadoop (HDFS, MapReduce, YARN).
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, IAM), GCP, Docker, Jenkins.

PROJECTS**High-Performance Feature Processing Service - [C++, Docker]**

- Developed a **C++ backend service** to efficiently compute and serve complex user features for a simulated application.
- Implemented a **RESTful API interface** using a C++ framework (**C++ Rest SDK**) to handle high-volume feature requests with **sub-10ms latency**.

Customer Relationship Management (CRM) - [ReactJS, Redux Toolkit, Laravel, MySQL] - [Link](#)

- Developed a **CRM system** for 50K+ customers, implementing a **recommendation engine with collaborative filtering** and a **customer segmentation module** using K-Means clustering. These features drove personalized product suggestions, enhanced marketing targeting, and enabled proactive risk identification.

LensLoop - [ReactJS, Redux Toolkit, TypeScript, AppWrite]

- **Engineered the entire user interface** using **TypeScript** and **ReactJS**, leveraging **TanStack Query for automatic caching**, efficient parallel data fetching, and robust real-time server mutations.

Repeat Buyer Prediction for E-Commerce Promotions - [Scikit-learn, TensorFlow, Pandas, and NumPy]

- Engineered **predictive models** using **XGBoost and Logistic Regression** to estimate 6-month repeat purchase probability for over 40,000 new buyers post “Double 11” sale.
- Implemented advanced feature extraction from **6 months of user logs (clicks, add-to-cart, purchases)** to increase validation **AUC by 10%** through behavioral sequences and demographics.