

# Suraj Khamkar

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📍 Clemson, SC

## EDUCATION

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### Clemson University

*Master of Science in Computer Science*

August 2022 - May 2024

Clemson, SC

### Center for Development of Advanced Computing

*Post-Graduate Diploma in Advanced Computing*

August 2019 - February 2020

Pune, India

### Shivaji University

*Bachelor of Engineering in Electronics and Telecommunication*

August 2015 - May 2019

Kolhapur, India

## EXPERIENCE

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### Application Developer Intern | Part-time

*Clemson University*

August 2023 – Present

Clemson, SC

- Developing a React Native app, broadening user reach to visualize, get response, and control real-time temperature data
- Configured serverless functions on Azure to enable compatibility with an SQL Server database for backend operations reducing wait time from 2 minutes to a second.
- Used Azure DevOps for version control, agile tool, and CI/CD pipelines resulting in a 20% reduction in development and deployment cycle, ensuring code quality throughout the project.

### Software Developer

*EnterpriseDB*

March 2020 – July 2022

Pune, India

- Conceptualized problem-solving, and agile methodologies and effectively collaborated with team of 25 members during the development of new features. Involved in the design, development, review, and testing of the software components.
- Debugged and resolved critical software bugs identified by the internal team and customers, resulting in a 44% decrease in customer tickets applying C and C++ with object-oriented programming concepts.
- Thoroughly studied the grammar rules of PostgreSQL, dedicating over 50 hours to mastering its intricacies. Expanded the help (\h) and tab completion support functionalities with the latest findings.
- Revised password redaction feature for log files produced by 5 system sources that will help redact sensitive information.
- Enhanced table partition feature enabling ROWIDS to identify every row uniquely with BTree indexing felicitated 10% faster search and insertion operations in both partitioned and non-partitioned tables.

## SKILLS

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**Programming Languages:** Java, Python, C, C++, JavaScript, TypeScript, PL/SQL

**Application Development:** React Native, Expo, Xcode, Android Studio

**Backend Development:** NodeJS, NextJS, Express, Spring

**Frontend Development:** React, Angular, Tailwind, Bootstrap, HTML, CSS

**Database:** Postgres, Oracle, MySQL, MongoDB

**Cloud:** AWS (EC2, VPC, S3, RDS, IAM, Lambda), IBM Cloud (Object Storage, Power, Verify)

**Tools:** Java Spring, Hibernate, Agile, Linux, Git, Docker, Kubernetes, Tableau, VS Code, Eclipse

## PROJECTS

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### Music Player | *React Native, Material UI, Track Players*

- Developed an application for Android and iOS, leveraging Firebase, and local storage to fetch thousands of songs.
- Utilized JavaScript framework React Native components to optimize performance, resulting in smooth navigation within the application, with intuitive user interface components using Material UI.

### Social Networking App | *React, NodeJS, JavaScript, Tailwind, Postgres*

- Launched a robust web application and hosted a website showcasing a social media network for professional life leveraging power of RESTful web service library Axios to handle 900+ backend communication requests per second.
- Spearheaded the development of a library comprising more than 20 reusable components using React, following industry-standard.

### Food Delivery System | *Java, Angular, Spring, Eclipse, AWS, Jenkins*

- Designed and hosted a site on EC2 to sample a system with business transactions involved using a back-end Java servlet to simulate the common functions of an online food delivery service.
- Performed efficient back-end functionalities and RESTful APIs, enabling seamless integration of payment gateways and third-party services, leading to a 25% reduction in transaction processing time with continuous integration and delivery.