

PRATIKSHA VIJAY SHIRSATH

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EDUCATION

University at Buffalo, The State University of New York

Buffalo, NY

MS, Computer Science and Engineering; GPA: 3.54/4

August 2022 - January 2024

Pimpri Chinchwad College of Engineering

Pune, India

BE, Information Technology

June 2018 - May 2022

PROFESSIONAL EXPERIENCE

Detroit Quality Staffing and Solutions

Detroit, MI

Software Engineer

May 2024 - Present

- Led the development of the **DQS Direct** iOS and Android mobile app using React Native, enabling jobseekers to easily swipe through job listings, upload resumes, and apply for positions resulting in a 50% increase in jobseeker engagement and a 30% faster application process.
- Architected and manage the backend with NestJS on Azure, ensuring a scalable, secure, and high-performance server-side solution, while utilizing Git and Azure DevOps for version control and collaboration
- Improved code quality and maintainability through ESLint integration and utilized essential React Native packages such as Redux for state management and and Axios for 15% faster data handling.
- Tech Stack:** React Native, Redux, ESLint, JavaScript, TypeScript, NestJS, CI/CD, Azure, REST APIs, Git, UI/UX, MVVM.

The Research Foundation - SUNY

Buffalo, NY

Senior Research Aide - Android Developer

July 2023 - July 2024

- Collaborated with Dr. Yu-Ping Chang, UB School of Nursing, to create the **Collaborative Care** Android app independently, revolutionizing behavioral and mental health care for patients.
- Implemented in-app messaging with AES-256 encryption, ensuring safe and private chats between patients and providers.
- Developed and deployed an innovative audio and video player solution, leveraging integrated video caching technology to optimize streaming efficiency, resulting in a 30% reduction in buffering time and a 25% boost in user engagement metrics.
- Implements push notifications for medication reminders and Daily Check In, leveraging Firebase Cloud Messaging to engage users.
- Tech Stack:** Flutter, Dart, Android, Java, Git, UI/UX, MVVM, Firebase, REST APIs.

University At Buffalo

Buffalo, NY

Research Assistant

August 2023 - December 2023

- Led the design of a React.js web frontend, improving accessibility by 40% for **The National AI Institute for Exceptional Education.** through enhanced phoneme support for users with speech disabilities.
- Implemented client integration endpoints for live API access and data processing, alongside curating a database of 250k+ words with articulation information.
- Optimized advanced search functionalities using Solr, accessible through the Frontend with the help of FastAPI, allowing users to perform complex queries with instant feedback.
- Tech Stack:** FastAPI, Python3, HTML, CSS, JavaScript, Reactjs, Nodejs, Solr, Kubernetes, Docker, GitHub, HTML, CSS.

Persistent Systems, Inc.

Pune, India

Mobile App Developer

May 2021 - June 2022

- Developed "Slice of Heaven," a loyalty app for a food chain, increasing customer retention by 35% through a points-based rewards system.
- Engineered an optimized state management solution using Flutter's provider package, resulting in a 40% decrease in app crashes and improved user experience.
- Integrated Google's Messaging API for in-app chat features, boosting user engagement and support communication.
- Tech Stack:** Flutter, Dart, Firebase Cloud Firestore, Social Media APIs, Provider, Figma.

TECHNICAL SKILLS

Languages and Technologies:

React.js, Dart, Python, JavaScript, Golang, Java, C++, SQL

Frameworks and Platforms:

React Native, Flask, Apache Solr, Flutter, Firebase,

Tools:

Git, Google Cloud, OpenGL, Android Studio, Visual Studio Code, Postman

Databases:

PostgreSQL, MongoDB, Cloud Firestore, SQLite, MySQL, Hadoop, Azure