

SWAPNIL PATEL

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TECHNICAL SKILLS:

- Programming Languages: Golang, Typescript, JavaScript, java, PL/SQL, Dart, Node.js, Swift
- Framework/Web Development: Angular, ExpressJS, Flutter, Android, React.js, Artillery, NgRx, HTML5, CSS3, XML, AJAX, JSON, Material Design
- Databases: Oracle 12c, 11g, MySQL, NoSQL, Google Firestore, Google Realtime Database, MongoDB
- Others: GIMP 2.10, Adobe Photoshop, Adobe Lightroom, Photography, Craft, Microsoft Office
- Tools: VS Code, Postman, GitHub, Figma, Prettier, Oracle BI Publisher, WebADI, Oracle ADF, UiPath, GitHub Workflow
- Application Server: Google Firebase, Azure, Oracle WebLogic, Apache Tomcat, Google Cloud Platform, docker
- Operating System: Apple macOS, Microsoft Windows, Linux, Android
- Concepts: Relational Database, Data Structure, Object Oriented Programming, Microservices, REST API, Agile, Model-view-controller (MVC), Mode view-view model (MVVM), low-latency applications, Functional Programming

EDUCATION:

Master of Science(MS), Computer Science, University of Houston – Clear Lake, Houston TX **Expected Graduation: May 2023**
Bachelor of Engineering, Computer Science, Chhattisgarh Swami Vivekanand Technical University, Chhattisgarh, India **June 2016**

PROFESSIONAL EXPERIENCES:

Software Consultant at Deloitte USI, Bangalore India Mar 2020 – Aug 2021

- Led multiple projects as a system architect under the **Firm initiative program**, ensuring timely completion and high-quality deliverables.
- Collaborated with the UX team to translate **Figma** UI templates into scalable technical solutions by coaching a frontend team of 5 members.
- Improved performance and turnaround time of known slow conversions by up to 15% using **Explain plan**, **Oracle hints**, and by **creating indexes**.
- Fixed memory leaks and performance tuning-related issues by conducting Load & Stress testing on **ExpressJS** services leveraging **Artillery**.
- Computerized manual forms in Oracle cloud ERP using **UiPath**, resulting in reduced errors, and eliminating delays caused by the lack of web ADI.
- Rebuilt a 3-year-old internal bot tool in Angular, NgRX, and NodeJS with user experience redesign and released it for beta testing within 8 months.
- Developed 10 Oracle BI reports and 5 Conversions with fluid requirements within 3 sprints by designing and using reusable templates.

Software Analyst at Accenture Solutions Private Limited, Bangalore India Sept 2016 - Mar 2020

- Created lightweight **REST APIs** using **Node.js** to securely sync end-of-business records from 3rd party vendors to Oracle 11g with reporting.
- Automated XLIF translation and deployment by maintaining a global dictionary and cutting down rework by up to 30% for Oracle BI reports.
- Constructed an Angular web app for dashboards and reports for 24x7 monitoring system resource status with email triggers audited manually.
- Fixed memory leaks and performance tuning-related issues by conducting Load & Stress testing on **ExpressJS** services using **Artillery**.
- Implemented the transition from agile to CI/CD by migrating from Jenkins to GitHub workflow to improve deployment efficiency.
- Developed 12 conversion, reports, and extension components for the fluent transition of clients while ensuring data quality and consistency.

OTHER EXPERIENCES:

Graduate Teaching Assistant at Department of Computer Science in UHCL, Houston TX Sept 2021 - Present

- Conducted extra classes and labs with a focus on low-performing students, resulting in up to 30% improvement in student grades.
- Curated quizzes and assignments per the latest programming trends to enhance the existing syllabus with the help of Professors.
- Supervised multiple classes under different Professors and assessed all the assignments with high accuracy within deadlines and grade reporting.
- Evaluated and graded graduate students' final projects using criteria such as design, presentation, documentation, and coding standards.

ACADEMIC/PERSONAL PROJECTS:

Carpooling iOS App:

- Developed a Carpool App with Realtime car status, trip booking, and chatrooms with minimal server hits per session for cost-effectiveness.
- Designed and organized the **firebase noSQL** completed with rules for authentication for secure data access with **app-check**.
- Developed and optimized the app's backend service, and payload bundling techniques to decrease server hits and enhance performance.
- Implemented custom location change listeners for cost-effective live tracking with controlled updates only on significant movement.
- Developed chatroom for the app where drivers and passengers can communicate where chats were refreshed on update and not on polling.
- Responsible for version control of the code, resolved occasional code conflicts, and perform a code review on all merges.

Template for Angular web app

May 2020

- This project act as a boilerplate code with basic functionality like **routing**, **authentication guard**, **lazy loading**, and **firebase** with **material** design.
- Wrote a custom script to load secret keys at build time and hence eliminating a need to share security keys even with the deployment team.
- Set up **GitHub** repository with **GitHub workflow** to automate the firebase deployment process in line with the **CI/CD** pipeline model.
- Custom store management service for managing the state of authentication and common service for notification, and real-time data.

ACHIEVEMENTS:

- Community Service (Houston Foodbank): Managed and trained new volunteers for the grocery distribution process on campus. (30+ hours)
- Google Code-Jam 2022: Successfully cleared the qualification round of **Google Code-Jam 2022** and competed till round 2.
- Hawk Scholarship: Awarded competitive Hawk Scholarship at UHCL for profuse academic history and work experience.