

APAR POKHREL

Irving, Texas

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Technical Skills

Languages: JavaScript, Python, Java, C/C++, SQL, HTML/CSS

Database: Oracle, MySQL, PostgreSQL, MongoDB

Libraries & Frameworks : ReactJS, Axios, Jest, NodeJS, ExpressJS, Bootstrap, TailwindCSS

Cloud & Developer Tools: AWS, VS Code, IntelliJ, Git, Gitlab CI/CD, JUnit, Jira, Postman, Elasticsearch

Experience

Graduate Teaching Assistant

August 2024 – Present

The University of Texas at Arlington

Arlington, Texas

- Support faculty in instruction of CSE 1325 Object-Oriented Programming (Java/C++) course by preparing deliverables and grading assignments while managing classroom logistics across 5 sections. [Faculty: Professor George Rice]
- Enhance student performance through weekly review sessions and office hours for 200+ students.
- Streamlined grading features, including grade entries and comments via Canvas API, reducing grading time by 80%.

Software Engineer

September 2022 – February 2024

SAE International

Warrendale, Pennsylvania

- **eAuditNet** | Java, JavaScript, Oracle, Spring MVC + JSP
 - * Resolved 50+ bugs tickets in *eAuditNet* (legacy application) by examining Kibana logs and engaging clients and documented the Root Cause Analysis process, reducing repeat incidents by 25% and enhancing resolution speed.
 - * Developed and tested 10+ store procedures to optimize audit and expense processes, slashing support ticket response time by 30% and assisted in resolving data exchange failures by dissecting failure codes and server logs.
 - * Successfully redesigned and integrated six email configurations to streamline audit scheduling and certifications, accreditation status, invoices, and payment notifications resulting in a 40% improvement in user experience.
- **WMI/WMC** | Java, ReactJS, PostgreSQL
 - * Optimized global WMI code allocation logic for high volume car manufacturers, achieving a 70% improvement in assignment time by strategically enhancing table lookups through indexing and caching.
 - * Analyzed the global Oracle database structure, create new schema designs, identify data mappings and transformation requirements for migration to PostgreSQL and assist in addressing any migration-related issues.
 - * Created dynamic reports across areas of global code confirmation, cancellation, and verification using react-pdf library and streamlined report delivery via SendGrid API resulting in a 60% reduction in report distribution time.
 - * Designed a suite of API endpoints, thoroughly tested in collaboration with QA team using tools such as Postman and meticulously document endpoints using Swagger UI for seamless integration and developer experience.

Student Developer

August 2021 – May 2022

The University of Texas at Arlington

Arlington, Texas

- Collaborated on designs and build for an underwater ROV with a \$800 budget for the IEEE Robotics Competition.
- Utilized Agile SDLC methodologies to streamline daily scrum meetings, requirements, sprint planning, and backlog.
- Designed a ReactJS application as a control interface and improved maneuverability by 20% with live video streaming.

Projects

Insure It: HackUTA 2022 | ReactJS, Bootstrap, NodeJS, Axios, Tesseract

October 2022

- Secured 1st place for the **Best Mobile App** among 400+ participants by designing a OCR-based mobile app for easy insurance quotes by parsing consumer receipt data, resulting in a streamlined process and hassle-free coverage.
- Utilized Axios to route API calls and integrated login authentication and real-time notifications during receipt uploads and quotes update via Twilio's API, improving user experience.

Hackathons | Flask, ReactJS, Bootstrap, Axios, Python, Tensorflow, Google Collab

September 2022

- **CareHive:** ML model that detects neno-natal pneumonia from chest X-rays. (3rd place @Hackdemonium 2.0 2022)
- **AgroHive:** ML model that predicts 38 crop diseases among 13 crop varieties to improve crop yield.(HackTX 2022)
- **10 years with Jake:** Interactive game that stimulates a 10 year State Farm home insurance plan. (HackDFW 2022)

Education

The University of Texas at Arlington

August 2024 – Present

Master of Science in Computer Science, Thesis Track

The University of Texas at Arlington

May 2022

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 3.81/4.0