Shereen Esther Jubal

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SUMMARY

Dedicated Software Engineer with over 3 years experience in web development, focusing on Angular, HTML, CSS3, JavaScript, TypeScript, Java, SQL like MySQL, PostgreSQL and NoSQL like Firebase and MongoDB. Proven leader, adept at mentoring and managing teams and achieving project milestones with high-quality results. Strong problem-solving skills, innovative mindset for adopting new technologies, and attention to detail ensure effective project execution.

TECHNICAL SKILLS

Web Technologies - CSS, HTML, SCSS, JavaScript, JSON, Bootstrap, Python, C, C++, Java, TypeScript, C#, Node, SQL, TailwindCSS, RxJS
Databases - MySQL, PostgreSQL, MongoDB, Firebase
Operating Systems - Mac, UNIX, Linux, Windows, Ubuntu
Code Repositories - Git, Git Hub, Git Lab
Frameworks - Angular, ASP.NET
Package Managers - NPM, HomeBrew, pip, yarn, apt
IDEs - Visual Studio, Visual Studio Code, Eclipse, Anaconda, IDLE
Other Technologies - Figma, AdobeXD, Deep Learning Models, JIRA, Notion, Linear

EDUCATION

Master of Science in Computer Science   **April 2024**
Wright State University, Dayton, OH, US   *GPA: 3.9/4.0*

Bachelor of Engineering in Computer Science   **April 2020**
Anna University, Chennai, TN, INDIA   *GPA: 3.3/4.0*

PROFESSIONAL EXPERIENCE

Software Engineer, Surfboard Payments Limited   **April 2020 - March 2022**

- Constructed Model View Controller (MVC) web applications using Angular, Firebase, MongoDB, and Node.js, and connected them to Nx-Dev applications.
- Designed and built a microfinance platform for non-profit organizations, ensuring robust and scalable solutions.
- Developed a Merchant Management System to track and monitor merchant activities, KYC, and ticket management.
- Created data models and handled design, deployment, and presentation of the applications, ensuring data integrity and optimal performance.
- Spearheaded the implementation of responsive design principles to enhance user experience across devices, leading to a 20% increase in user engagement.
- Optimized application performance by identifying and resolving critical bottlenecks, resulting in a 20% increase in overall efficiency.
- Built and deployed microservices to enhance scalability and maintainability of applications.
- Maintained CI/CD pipeline to improve efficiency and reduce deployment times by 30%.
- Wrote and maintained unit tests to ensure code quality and reliability.
- Collaborated with the design team on developing micro-services, ensuring cohesive and efficient system architecture.
- Designed software system architecture for scalable web applications, focusing on modularity and maintainability.
- Organized internships, conducted interviews, and mentored four interns, fostering the next generation of developers.
- Conducted several interviews to hire new developers, contributing to the growth and skill enhancement of the team.
- Proficient in troubleshooting, debugging, and bug fixing, ensuring smooth and error-free application performance.
- Developed APIs and integrated them seamlessly with front-end applications.
- Championed in-depth understanding of data structures and their application in optimizing code performance.
- Experienced in UI/UX design, ensuring intuitive and user-friendly interfaces.
- Experienced in collaborating with cross-functional teams to deliver high-quality software solutions.
- Utilized Angular Materials, Angular CLI, and RxJS to streamline development processes and improve application performance.
- Proficient in managing the full development life cycle, from initial requirements gathering to deployment and maintenance.
- Developed custom Angular libraries to enhance reusability and maintainability of code.

Software Engineer, Wipro Limited   **October 2019 - March 2020**

- Specialized in problem-solving and algorithm implementation using Java in the Eclipse framework.
- Engineered efficient solutions to complex coding challenges, enhancing application performance.
- Conducted thorough code reviews and debugging sessions to ensure high-quality software delivery.

- Developed comprehensive documentation and training materials to support ongoing maintenance and future development.
- Implemented asynchronous programming using async and await keywords to improve application responsiveness.

Big Data Analyst, HP Enterprise   **April 2019 - September 2019**

- Focused on big data analysis and management.
- Applied SQL with the MySQL framework to perform efficient querying against large business databases.
- Developed and optimized data processing workflows using Hadoop and Hive tools.
- Collaborated with data engineers to design and implement data storage solutions.
- Conducted performance tuning and troubleshooting to ensure efficient data retrieval and processing.
- Gained hands-on experience in database management, data analytics, and software development best practices.

PROJECTS

Jokes Web Application   June 2024
- Developed a responsive e-commerce web application with product management, shopping cart, and checkout features.
- Implemented user authentication and an admin dashboard for managing products and orders.
- Designed and developed RESTful APIs using ASP.NET Core and C# to facilitate seamless communication between front-end and back-end systems.
- Created dynamic and interactive UI components with JavaScript.
- *Software Stack:* ASP.NET Core, C#, HTML, CSS3, SQL Server, Git.

CC Fraud Detection using DASK Library   December 2023
- Developed a credit card fraud detection system using a Random Forest algorithm to identify suspicious transactions.
- Utilized the DASK library for distributed computing to handle large datasets efficiently.
- Implemented data preprocessing techniques including normalization and feature selection to enhance model accuracy.
- Conducted thorough testing and validation using cross-validation and performance metrics such as precision, recall, and F1-score.
- *Software Stack:* Deep Learning (Random forest Algorithm), DASK, Python, scikit-learn, NumPy.

Blood Donation Website   April 2023
- Constructed a website for admin, user, donors, and blood tracking portals following the Agile software cycle.
- Developed a user-friendly interface using HTML and CSS to ensure seamless navigation for all users.
- Implemented a robust backend with Python and MySQL to handle data storage and retrieval efficiently.
- Utilized Git for version control to manage code changes and collaborate with team members.
- *Software stack:* Python3, HTML, CSS3, MySQL, Git.

Reimbursement Application   September 2022
- Constructed a web portal for admin and users to apply for financial reimbursement and grant approvals.
- Integrated real-time database functionalities with Firebase to ensure instant data updates across the portal.
- Implemented role-based access control using Angular 12 to manage user permissions and enhance security.
- *Software stack:* Angular 12, Firebase, Git.

Recipe Application   March 2022
- Developed a web application with multiple functionalities like creating, reading, searching, categorizing, deleting, updating, and liking recipes.
- Utilized Angular 11 for dynamic front-end development, ensuring a responsive and user-friendly interface.
- Implemented real-time data synchronization and user authentication using Firebase, providing a secure user experience.
- *Software stack:* Angular 11, NodeJS, Firebase, Git.

PUBLICATION

Jubal, S. E. (2020). Real-time audio-visual experience in museums using deep learning. *Shodh Sarita*, vol 7(issue 27(I)).

CERTIFICATIONS

Angular the complete guide, Udemy | **Firebase and Angular in-depth**, Udemy | **Core Java**, Green's Technology | **HTML**, SoloLearn | Microsoft Learn for **ASP.NET** | **Foundational C#**, Microsoft