Sai Preethi Pantangi

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EDUCATION

Masters in Computer Science: George Mason University.   Jan 2023 - May 2024
Courses: Machine learning, Natural language processing, Analysis of Algorithms
Bachelors in Information Technology: BVRIT Hyderabad, India.   Aug 2015 - May 2019

EXPERIENCE

Programmer Analyst | 22nd Century Technologies, Fairfax, Virginia, USA   Jun 2024 - Current

- Developing an analytical dashboard in IDPBot, Angular 15, codebase employing ngx-charts and D3.js to visualize operator performance.
- Writing complex SQL Server(T-SQL) procedures to retrieve data for various IRS forms (1040, 94x, etc).
- Modifying the .NET and C# codebase (Azure DevOps) to write backend APIs for displaying analytics, enhancing the system's data visualization capabilities.

Software Engineer Specialist | Dassault Systèmes, Pune, Maharashtra, India   Aug 2021 - Dec 2022

- Architected end-to-end Schedule Tab feature to enhance communication among cross-functional teams and integrated a timeline feature, boosting stakeholders' ability to manage product features and milestones, with 25% increase in product and project management efficiency.
- Executed batch processing of HTTP REST API requests with asynchronous programming to optimize data handling, achieving an 80% increase in page load speed and overall application efficiency.
- Designed and spearheaded the development of a reusable component for PLM using parameterized modules, reducing code rewrites by 45%, streamlining development processes, and promoting code efficiency.
- Achieved 95% unit test (TDD), with Cypress, coverage and a 50% reduction in post-release bugs through Agile, regression, and integration testing.
- Developed Python scripts to automate award generation, reducing manual effort by 87.5%, and enhancing accuracy and operational efficiency.

Software Engineer | Xoriant Solutions, Pune, Maharashtra, India   Jul 2019 - Jul 2021

- Partnered closely with QA teams and stakeholders to deliver high-quality solutions, reducing post-release defects by 20% and achieving a 15% increase in user satisfaction. Transformed user stories, prototypes, wireframes, and user requirements into meaningful features.
- Migrated Disney's complex, Android mobile app, code, refactoring 100,000+ lines and implementing multilingual support, boosting game performance by 40% and increasing the user base by 30%.
- Resolved over 65 issues within the monolithic architecture codebase developed using Java and Spring boot. Monitored failures through AWS CloudWatch, ensuring system stability and reliability.
- Led web application development of medicine recommendation Java application catering to users of all age groups and expediting the process by 55%. Utilized Python, Django, and Beautiful Soup for scraping medicine images from websites
- Conducted comprehensive root cause analysis to identify and resolve issues in MVC architecture, resulting in a 25% increase in user satisfaction within an Agile and SDLC (Software Development Life Cycle) framework.

ACADEMIC PROJECTS

Swiggy - Food Ordering Application | React JS, Tailwind.CSS   Sept 2023 – Oct 2023

- Engineered a web-based food ordering front end application focusing on web accessibility (WCAG) and responsive design. Utilized live Swiggy APIs to enhance UX with advanced features such as Infinite Scrolling, Category Filtering, Accordion, and Cart functionality.

TECHNICAL SKILLS

- **Programming Languages & Libraries**: HTML, CSS, Bootstrap, Vanilla JavaScript, jQuery, PHP, JSON, TypeScript, ES6, React JS, Next.JS, Vue JS, Angular 8+, Redux (state management), Node JS, Tailwind CSS, Python (NumPy, Pandas), Java, Spring Boot GraphQL, Junit.
- **Database:** SQL, Oracle, MySQL (non-relational databases), NoSQL, PostgreSQL, MongoDB, DynamoDB, Cassandra.
- **Cloud technologies and Tools:** AWS (S3, EC2, DynamoDB, Redis), GCP, Docker, Tableau, Kubernetes, Jenkins, Git, SVN (Version Control), JIRA, NPM, Yarn, Babel, Webpack, CI/CD, Excel, Figma, CLI, Confluence, BitBucket, Slack, Jest.
- **Techniques:** Lazing Loading, Caching, Preprocessors (SASS, LESS), DOM, AJAX, JWT, OAuth2, REST API, HTTP, CDN, Flexbox, Cookies, Websockets, Reusable UI Components, UI/UX Design, Data Structures, Design patterns.