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

React UI utility Suite | React JS, Rollup, TypeScript   July 2024

- Developed react-ui-utility-suite, a comprehensive library of customizable and reusable React components designed to streamline UI development.
- NPM Package, Git Repo

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.