

# Sai Preethi Pantangi

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## EDUCATION

**Masters in Computer Science:** George Mason University.

Jan 2023 - May 2024

**Bachelors in Information Technology:** BVRIT Hyderabad, India.

Aug 2015 - May 2019

## EXPERIENCE

**Programmer Analyst** | 22<sup>nd</sup> Century Technologies, Fairfax, VA

Jun 2024 - Current

- Developed 12 analytical dashboards for over 30 operators using Angular 15 and D3.js, implementing memoization and caching techniques to cut processing time to around 30 seconds, significantly enhancing performance and user experience.
- Designed and optimized advanced SQL Server procedures and complex queries for retrieving IRS form data, improving data retrieval efficiency for over 500,000 records, which led to a significant boost in processing speed and accuracy.
- Deployed scalable APIs with .NET and C# on Azure DevOps, cutting deployment time and reducing API response times by 33%, boosting real-time data processing of 1M records.

**Graduate Research Assistant** | George Mason University, Fairfax, VA

Jan 2024 – May 2024

- Led development of a PoC for an IDUS by implementing WCAG-compliant designs and USWDS, using pagination and reusable components to cut page load times by 50% and improve accessibility audit scores.
- Engineered backend solutions with Node.js, Express, and PostgreSQL, optimizing RESTful APIs using Throttling to cut page load times by 40% and reduce disk I/O, while integrating third-party services for improved performance and reliability.
- Conducted thorough testing with React Testing Library, Mocha, and Postman achieving 84% test coverage and significantly reducing bug-related incidents by enhancing overall stability and reliability.

**Software Engineer Specialist** | Dassault Systèmes, Pune, Maharashtra, India

Aug 2021 - Dec 2022

- Built the Schedule Tab feature, by collaborating across teams to understand the architecture, leveraging asynchronous programming and batch processing of HTTP REST API requests, and reducing latency to ~4 sec per request.
- Adopted Test-Driven Development using Karma with comprehensive test coverage, mocking and stubbing, incremental development, and test first approach, achieving 95% code coverage and reducing post-release bugs.
- Created reusable roadmap component for PLM, designed for easy integration into any application. This innovation enhanced product lifecycle management, streamlining and reducing development time by 30%.
- Utilized SVN and CI/CD pipelines to ensure consistent code integration. Enhanced code quality through regular code reviews for junior developers, resulting in reduction of critical bugs by 15%.

**Software Engineer** | Xoriant Solutions, Pune, Maharashtra, India

Jul 2019 - Jul 2021

- Fixed critical production bugs in Java and Spring Boot reducing defects and developed a Java-based Scheduled Task Monitor with Windows Task Scheduler, enhancing system reliability and reducing downtime by 30%.
- Refactored over 100,000 lines of code for Disney's Android app, boosting performance and increasing the user base. Implemented multilingual support, enabling the app to reach a broader audience by offering multiple language options.
- Devised a medicine recommendation app with Angular 8+. Extended to React Native for cross-platform support, increasing user reach by 68%. Implemented Python and BeautifulSoup for scraping 1,000+ medicine images, enhancing visual content.

## PROJECTS

**React UI utility Suite** | React JS, Rollup, TypeScript | [NPM Package](#), [Git Repo](#)

July 2024 - Current

- Developed a suite of customizable React components, streamlining UI development and eliminating 30 duplicated components across the codebase.
- Architected modular components with flexible props and hooks, reducing development time for new features.

## TECHNICAL SKILLS

- **Programming Languages & Libraries:** HTML5, CSS, Bootstrap, JavaScript, jQuery, PHP, TypeScript, React JS, Next.js, Vue JS, Angular 8+, JSON, Redux, Node.js, Tailwind CSS, MUI, Python, Java, Spring Boot, GraphQL, Junit.
- **Database & OS:** SQL, Oracle, MySQL, NoSQL, PostgreSQL, MongoDB, Windows, Linux.
- **Cloud & Tools:** AWS (S3, EC2), Google Cloud, Docker, Kubernetes, Jenkins, Git, SVN, JIRA, NPM, Yarn, Babel, Webpack, CI/CD, Figma, Visual Studio, Slack, Jest, Postman, Maven.
- **Techniques:** Lazy Loading, Caching, Preprocessors (SASS, LESS), DOM, AJAX, JWT, REST API, HTTP, Cookies, CDN, Flexbox, Websockets, UI/UX Design.