

PRAMODA CHANDRU

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EDUCATION

Illinois Institute of Technology, Chicago, IL

Expected December 2024

Master of Science in Computer Science, - 3.6 GPA

Courses: Software System Architecture, Enterprise Web Applications, Mobile Application Development, Software Project Management, Software Engineering, Parallel and Distributed Processing, Intro to Machine Learning

TECHNICAL SKILLS

- **Languages/OS:** Java, JavaScript, Typescript, Groovy, Dart, HTML, CSS, SQL, Windows, Unix, Linux, macOS
- **Web Development:** Angular, NgRx, Spring Boot, Flutter, REST, Node, Express, React, Microservices, Hibernate
- **Databases:** MySQL, MongoDB, PostgreSQL, RDF
- **Tools and Frameworks:** Git, JIRA, Junit, Jasmine, Karma, Selenium, Geb, AWS (EC2, S3, ECR), Docker, Kubernetes, Apache Kafka

PROFESSIONAL EXPERIENCE

Software Development Intern

Dassault Systèmes, Shelton, CT, USA

May 2024 - Present

- Championed the development of multi-formula editing capabilities, enhancing the user experience for formulators and potentially reducing development time for product variations by 60%.
- Gaining experience working with a combination of client-side frameworks (Angular, AgGrid) and server-side technologies (Java, Spring Boot) to deliver a powerful and user-friendly interface for formulators.
- Optimized Java code for data processing and retrieval, achieving a 20% reduction in execution time, resulting in a significantly more responsive user experience.
- Accelerated time-to-market by 5% through efficient collaboration with global Development and QA teams, ensuring exceptional product quality through a robust test-driven development approach.

Software Engineer

Dassault Systèmes, Bengaluru, India

February 2015 - January 2023

Formulation Development Team

- Developed and implemented key features for the Formulation web application, streamlining formulation design & optimizing formulation calculation, achieving a 30% reduction in sourcing costs, 0% formulation non-compliance recalls, and a 20% decrease in development time.
- Engineered and refined a suite of interactive frontend components using Angular and NgRx, resulting in a 25% improvement in user interaction speed and a significant enhancement in overall application responsiveness and usability.
- Built and fine-tuned a robust Java/JavaScript back-end architecture for streamlined formulation data management. Implemented efficient queries that boosted data access speed by 20%, leading to a markedly better user experience.
- Actively participated in Agile ceremonies such as sprint planning, daily stand-ups, sprint reviews, and retrospectives to ensure alignment with project goals and priorities.

Biovia Automation Team

- Spearheaded the development of a robust automation framework for web applications, contributing to a notable 40% reduction in manual testing efforts and a significant 25% improvement in test coverage.
- Leveraged REST Assured framework to automate prerequisites, which led to 50% reduction in script execution time and an 80% decrease in script failures.
- Volunteered to optimize Jenkins automation batches through a multi-node configuration, achieving a staggering 50% reduction in execution time and enabling faster continuous integration and testing cycles.
- Empowered teammates through code review sessions and technical guidance on best practices, leading to a 20% reduction in code defects and a notable 40% increase in script execution success rate.

Enovia Enginuity Team

- Implemented a comprehensive suite of over 500 functional and non-functional tests, streamlining the testing process by 20% while achieving a 10% increase in test coverage, ensuring thorough quality assurance.
- Led the effort to resolve critical usability issues in collaboration with the development team, resulting in a 25% reduction in customer-reported problems and a 15% increase in customer satisfaction.
- Employed UFT for automating critical Enginuity tests, resulting in a 30% boost in overall test coverage.
- Managed the development and maintenance of E4ALL and 3DExperience environments, ensuring accurate and efficient testing of software applications and reducing testing time by 20% and a significant 30% decrease in critical post-release bugs.

PROJECTS

RepairMate | React, JavaScript, HTML, CSS, Express.js, Node.js, MySQL, MongoDB

August 2023 - December 2023

- Created a web application featuring a user-friendly interface using React and JavaScript and oversaw the development of modular components for web pages, user profiles, and an intuitive booking process with seamless payment integration.
- Led the engineering and deployment of the backend infrastructure utilizing Node.js and Express, managing user requests while integrating essential business logic.
- Established seamless communication with MySQL and MongoDB databases for user data, service listings, reviews, and bookings.

Model-Driven Vending Machine System Implementation | Java, Design Patterns

January 2023 - May 2023

- Spearheaded the design and development of modular Vending Machine components using Java and MDA principles. Incorporated State, Strategy, and Abstract Factory patterns to enhance code maintainability, flexibility, and system efficiency.
- Optimized payment processing with the Strategy pattern, aiming to optimize transaction efficiency.
- Enhanced system maintainability and scalability through state management and efficient product dispenser creation using the Abstract Factory pattern.