

# PRAMODA CHANDRU

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## SUMMARY

Results-driven software engineer with over seven years of experience in full-stack development, specializing in building scalable web applications and cloud-based solutions. Proficient in a range of technologies including Angular, Java, Spring Boot, AWS, and Kubernetes. Strong expertise in CI/CD processes, database management, and API development, with a proven track record of optimizing systems for performance and reliability. Passionate about problem-solving, collaborative teamwork, and delivering high-impact solutions in fast-paced environments.

## PROFESSIONAL EXPERIENCE

### Software Development Intern

Dassault Systemes, Shelton, CT, USA

May 2024 - Present

- Pioneered MFE grid view using Angular and AgGrid, optimizing formula editing and reducing development time for product variations by 60%.
- Developed data validation for MFE with Java and Spring Boot, improving product reliability by 40% through checks on roles and recipe statuses.
- Collaborated with multi-geo teams across Development, PM, Architects, and QA to ensure alignment with product enhancement specifications.
- Achieved 85% code coverage with Jasmine and JUnit frameworks, significantly improving code reliability and substantially reducing critical bugs.

### Software Engineer

Dassault Systemes, Bengaluru, India

February 2015 - January 2023

#### Formulation Development Team

- Engineered interactive frontend components using Angular and NgRx, resulting in a 25% improvement in application responsiveness.
- Led a team of 4 to implement a feature for copying and pasting formula rows within and across formulas, completing the task in one month.
- Architected a collections framework for recipes, enhancing privacy and visibility while streamlining maintenance and reducing data errors.
- Developed and documented over 100 APIs, ensuring seamless data synchronization between cloud and on-premises systems, which enhanced integration and data consistency.
- Participated in Agile ceremonies, including sprint planning, daily stand-ups, and retrospectives, while conducting regular code reviews to ensure project goal alignment, adherence to coding standards, and a 20% reduction in bugs.

#### Enovia Eginuity Team

- Optimized material connections in the formulation BOM, reducing material search time by 35%.
- Orchestrated a security context framework development, simplifying formula management and driving a \$2 million increase in customer licensing revenue.
- Integrated Raw Material sub-types with customizable attributes and validation rules, reducing data entry time by 70% for customers.
- Identified and resolved critical bugs and performance issues, leading to a 20% increase in application stability and responsiveness.

## PROJECTS

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

August 2023 - December 2023

- Built a user-centric web application with React and JavaScript, leading a team of 3 to develop modular components for user profiles and web pages, and ensuring a seamless booking experience with integrated payment processing.
- 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.
- Enhanced system maintainability and scalability through state management and efficient product dispenser creation using the Abstract Factory pattern.

### Yahtzee Game | Flutter, Dart

- Developed a single-player Yahtzee game using Flutter and Dart, implementing stateful widgets and state management techniques (Change Notifier) for a dynamic and user-friendly experience.
- Engineered core game mechanics like dice rolling, holding dice, and scoring calculations, ensuring adherence to Yahtzee rules.

## EDUCATION

Illinois Institute of Technology, Chicago, IL

Expected December 2024

Master of Science in Computer Science, - 3.6 GPA

## TECHNICAL SKILLS

- **Languages/OS:** Java, JavaScript, Typescript, Groovy, Dart, Shell Scripting, HTML, CSS, SQL, Windows, Unix, macOS
- **Web Development:** Angular, NgRx, Spring Boot, J2EE, Microservices, Hibernate, Flutter, REST, Node.js, Express.js, React
- **Databases:** MySQL, MongoDB, Oracle, PostgreSQL, RDF
- **Tools:** Git, JIRA, AWS (EC2, S3, ECR), GCP, Docker, Kubernetes, Apache Kafka, Jasmine, Karma