# CHANDRA PAVAN, PRATHAPANENI

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## EDUCATION

**University of Texas, Dallas, TX, USA**                                                          **January 2023 - December 2024**
*Master of Science in Information Technology and Management (GPA – 3.788)*
Courses: System Analysis & Project Management, Object Oriented Programming, Practical User Centric Web Development, Data Management, AWS Cloud Solution Architecture, Programming for Data Science, Digital Consulting Project, Cloud Computing, Business Analytics, Marketing Management.

## WORK EXPERIENCE

**Capgemini, Hyderabad, India**
**Software Engineer**                                                                            **August 2021 - December 2022**
- Designed and developed scalable backend systems using Java, optimizing algorithms to reduce processing time by 54 seconds, enhancing overall application performance.
- Leveraged Node.js, Express.js, and Sequelize for building controllers and RESTful APIs, incorporating Elasticsearch for advanced search functionality, and improving course content discoverability.
- Developed responsive websites using React.js and Tailwind CSS, prioritizing fast loading times and improved user experience.
- Enhanced platform performance by managing useEffect hooks effectively and applying Memoization and Code-Splitting techniques, leading to a 12% reduction in rendering times.
- Designed and implemented a backend cleanup app to improve database efficiency and query performance by 50%, primarily using MS SQL Server.
- Managed API testing and debugging with Postman, ensuring robust and reliable backend services.
- Collaborated with cross-functional teams in Agile environments, using JIRA for tracking tasks and bugs, while also engaging in Waterfall methodologies for legacy applications.

**CGI, Bangalore, India**
**Associate Software Engineer**                                                                 **August 2019 – November 2020**
- Collaborated with cross-functional teams for Full Stack Development of a Canadian telecom's enterprise applications, successfully delivering 3 development projects and resolving 30+ complex production issues.
- Led Java and Spring Boot development in a Microservices architecture, building OAuth-secured APIs using Spring Security, and optimizing cross-service API communication, resulting in a 30% improvement in API response time.
- Implemented a distributed caching solution with Redis, reducing data access latency by 40% and decreasing database load by 30%. Also employed Redis-based rate limiting, minimizing server overload incidents by 20% during high traffic periods.
- Developed intuitive user interfaces for dashboards and web applications using HTML, CSS, and JavaScript, increasing user engagement by 15%. Revamped workflows for a 6-step user journey, resulting in a 25% increase in successful transactions.
- Enhanced web performance by utilizing Lazy Loading and Angular Router for efficient navigation, integrating Cloudflare CDN to optimize content-heavy pages, leading to a 20% reduction in page load times.
- Engineered and managed a CI/CD pipeline using Jenkins and GitLab, improving development efficiency and reducing deployment errors by 30%, while accelerating time-to-market by 20% through automated testing and version control.

## TECHNICAL SKILLS

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| **Languages** | : | Java, JavaScript, Python |
| **Frontend** | : | React.js, Next.js, Redux, AJAX, HTML, CSS, SCSS/SASS, Figma, Bootstrap |
| **Backend** | : | Spring Boot, Express.js, Node.js, REST API, GraphQL, Kafka, Apache Tomcat, Jest, Junit |
| **Databases** | : | MySQL, PostgreSQL, MongoDB (NoSQL), Microsoft SQL Server, Redis, Hibernate (ORM) |
| **Cloud/DevOps** | : | Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, Kubernetes, Terraform, Packer, Jenkins |
| **Other Tools** | : | Git, GitHub Actions, GitLab, JIRA, Maven, Zipkin, Splunk, Postman, Eclipse, Visual Studio Code |

## RELEVANT PROJECTS

**Movies Front End, API Development** *(Technologies***: Java, Spring Boot, MongoDB, Postman, React JS, Fetch API, Bootstrap, Node.js) |** link
- Developed a dynamic React-based web application that integrates real-time movie data from a local API. Utilized React hooks (useState, useEffect) to manage application state and lifecycle, resulting in a responsive and interactive user interface.
- Implemented robust data fetching and error handling using the Fetch API to retrieve movie data from a locally hosted server. Addressed network errors and ensured reliable data retrieval with comprehensive error handling and validation strategies.
- Configured a local Node.js server to serve API endpoints for movie data, facilitating seamless communication between the front-end application and back-end services. Ensured version control and collaboration through Git, streamlining development and deployment processes.

**Tourista – Tours and Travel Website** *(Technologies***: React JS, HTML, Bootstrap, Node.js) |** link
- Designed and developed a responsive travel website showcasing popular tourist destinations, leveraging HTML5, CSS3, and ReactJS to create an engaging and interactive user experience.
- Created an intuitive navigation system with smooth scrolling functionality, improving user engagement and website accessibility ensuring improved user satisfaction.
- Deployed the website using GitHub Pages, demonstrating proficiency in web hosting and continuous deployment practices.