MOHANA KOTTU

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**SUMMARY**

Innovative Full Stack Team Lead Developer with 8+ years of experience in architecting scalable web solutions. Proficient in leading cross-functional teams to leverage Node.js, React, and cloud technologies such as AWS and Azure. Expertise in implementing micro services and optimizing CI/CD pipelines to enhance deployment efficiency. Committed to transforming complex business needs into effective technical solutions while driving best practices and delivering exceptional user experiences—exposure to the supply chain management (e-commerce, Retail, Logistics) and Finance industry.

**TECHNICAL SKILLS**

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| |  | | --- | | * AWS Services (API Gateway, Lambda, EC2, S3, Cloud Watch, ECS, EKS, CodeBuild, CodeDeploy, CodePipeline, IAM), Azure * Serverless Architecture * RESTful API Development * OWASP Security Best Practices * Cloud Infrastructure Management * Web Application Development * Containerization (Docker, Kubernetes) * Scalability and High Availability * Microservices Architecture * IDEs: Visual Studio, Eclipse, Sublime | | |  | | --- | | * Continuous Integration and Continuous Deployment (CI/CD) * Application Performance Monitoring and Troubleshooting * Agile Methodologies: Scrum, Waterfall, Kanban * Version Control: GIT, GITHUB * HTML5, CSS3, JavaScript (ES6+),TypeScript, React.js, Angular * Node.js, Express.js, Python (Django, Flask) * SQL and NoSQL Databases (MySQL, PostgreSQL, MongoDB) * RESTful APIs, JSON Web Tokens (JWT), OAuth, Web Sockets * Jenkins, JIRA * Infrastructure as Code (IaC) | |

WORK EXPERIENCE

Full Stack Developer

End Client: Accenture, San Diego – USA May 2023 – Present

* **Designed and developed RESTful APIs and Microservices** with **Node.js** and **Express**, facilitating seamless integration with front-end React components to enhance user interactions.
* **Built dynamic front-end applications** using **TypeScript, and React,** leveraging **Hooks** and **Redux** for state management, improving user experience and application responsiveness.
* **Integrated MongoDB as the NoSQL database** to store and manage application data, utilizing **Mongoose** for schema modeling and ensuring efficient data handling and validation.
* **Migrated legacy monolithic applications** to a Microservices architecture, promoting modular design and enabling independent scaling, which improved deployment efficiency and system resilience.
* **Collaborated closely with DevOps teams** to establish CI/CD pipelines using **Jenkins**, automating the deployment process and ensuring rapid delivery of new features and fixes.
* **Developed reusable React components and libraries** to streamline front-end development across projects, promoting code reusability and consistency throughout the codebase.
* **Conducted unit and integration testing** using **Jest** and **Mocha**, achieving high test coverage and ensuring the reliability and robustness of both front-end and back-end systems.
* **Implemented role-based access control (RBAC)** to manage user permissions, enhancing security by ensuring that users only have access to relevant resources based on their roles.
* **Engaged in Agile development processes**, including sprint planning, daily stand-ups, and retrospectives, ensuring alignment on project goals and timely delivery of features.
* **Technologies Used**: Node.js, Express, React, Redux, MongoDB, Mongoose, HTML, CSS, JavaScript, TypeScript, Git, AWS (EC2, S3, Lambda), Jenkins, JWT, OAuth2.

Full Stack Lead | MyWizard J2C Cloud [LINK](https://www.accenture.com/us-en/services/applied-intelligence/mywizard-intelligent-automation-platform)

End Client: Accenture, Bengaluru – India Jun 2021 – May 2023

* **Led the architectural design and development** of cloud deployment automation solutions across **AWS**, **Azure,** and **GCP**, ensuring scalable, robust, and efficient infrastructure for CI/CD workflows using **Jenkins**.
* **Defined and implemented full-stack application architecture**, leveraging **Node.js** for Microservices and **React** for modular, component-based front-end, improving application scalability and performance.
* **Designed API architecture** for efficient CRUD operations, utilizing RESTful best practices to enable seamless integration between front-end and back-end systems.
* **Guided the team in selecting appropriate technologies and tools**, and aligning development practices with project goals while optimizing performance using **TypeScript**, **SQL**, and **JavaScript**.
* **Mentored and guided a team of 5 developers**, promoting best practices in code quality, performance optimization, and architecture design, while ensuring that team members were up-to-date with the latest development standards and tools.
* **Developed and maintained CI/CD pipelines** using **Jenkins**, implementing automated testing and deployment strategies that reduced release times and improved overall system reliability.
* **Collaborated closely with cross-functional teams**, including DevOps and cloud architects, to optimize infrastructure setup and ensure smooth deployment across AWS and Azure environments.
* **Led technical discussions and code reviews**, providing architectural insights and ensuring adherence to best practices in **Node.js**, **React**, and **cloud services**.
* **Participated in Agile development cycles**, leading sprint planning sessions, facilitating daily stand-ups, and ensuring timely delivery of project milestones through tools like **Jira**.
* **Technologies Used**: Node.js, React, HTML, CSS, JavaScript, TypeScript, SQL, Jenkins, Docker, Kubernetes, Git, AWS, Azure.

Senior Developer | Petronas MPM Digital Transformation [LINK](https://www.business-standard.com/article/companies/after-pilot-accenture-s-blockchain-tech-to-soon-see-full-scale-roll-out-118072601436_1.html)

End Client: Accenture – Petronas, Bengaluru – India Jan 2020 – May 2021

* **Digitizing MPM workflows** for Petronas, implementing a **closed-loop inventory and surplus management system**. The solution allowed proactive management of inventory inflow and minimized surplus through positive back-pressure, improving operational efficiency.
* **Developed Blockchain-based web solutions** that simplified complex business processes into modular components, including **Purchase Orders**, **Surplus Marketplace**, **Surplus Transfer Approval**, and KPI dashboards for tracking usage and ownership.
* **Optimized PostgreSQL database queries**, enhancing system performance by 50% through advanced indexing, query optimization, and fine-tuning of database operations.
* **Integrated AWS services** for seamless deployment and scalability, configuring **EC2 instances** and managing infrastructure with best practices.
* **Streamlined CI/CD processes** using Jenkins, automating build and deployment pipelines for efficient delivery.
* **Utilized Angular** to develop dynamic and responsive front-end interfaces, improving user experience across the platform.
* **Employed Git for version control**, implementing branching strategies for better code collaboration and management.
* **Technologies Used**: Node.js, PostgreSQL, Angular, HTML, CSS, JavaScript, Jenkins, Git, AWS (EC2).

Full Stack Developer

End Client: Accenture, Bengaluru – India Jul 2017 – Dec 2019

* **Developed RESTful APIs** using **Node.js** and **Express**, implementing **JWT** for secure authentication and Bearer tokens for stateless communication.
* **Developed** a fully functional e-commerce web application with the **MEAN Stack (MongoDB, Express, Angular, and Node.js)**, ensuring high performance and responsiveness.
* **Implemented** features such as inventory management, real-time stock updates, order fulfillment tracking, shipment scheduling, and returns management to streamline the supply chain process.
* **Utilized Node.js architecture concepts** like event-driven programming and Microservices for optimal handling of concurrent requests.
* **Employed modern ECMAScript (ES6+) features**, like **Arrow functions**, **Async/await**, **Destructuring assignments**, **Promises**, etc.
* **Created dynamic single-page applications (SPAs)** in Angular, focusing on lazy loading, route guards, and reactive form handling to enhance user experience. **Developed reusable components and services** in Angular, utilizing **Angular Material** for a responsive UI design.
* **Managed SQL and NoSQL databases**, optimizing queries to enhance decision-making accuracy by 20%.
* **Conducted unit testing using Mocha and Chai**, achieving 95% code coverage and significantly reducing regression bugs.
* **Migrated applications to AWS**, configuring **EC2 instances** and managing **IAM roles** for secure access.
* **Implemented CI/CD pipelines with Jenkins**, improving deployment efficiency and reliability.
* **Expert in Tortoise SVN and Git**, implementing version control best practices for team collaboration.
* **Technologies Used**: MongoDB, Mongoose, Express.js, Angular, Node.js, REST APIs, SQL, ChartJS, AWS (EC2, S3, IAM), Jenkins, Mocha, Chai, Tortoise SVN, Git.

**Web Developer | Employment Portal** [**LINK**](https://www.pennacement.com/)

**End Client: Penna Systems May 2014 - July 2015**

* **Contributed to the development and enhancement** of a web-based ERP system for 10,000+ users, leading to a 40% reduction in operational costs and improved workflow efficiency.
* **Developed and optimized key modules**, including **User Management,** **Inventory Management**, and **Learning Management System (LMS)** which streamlined operations and improved user experience across various departments.
* **Implemented interactive UI components** using jQuery to enhance the user interface, improving engagement and increasing adoption of the LMS and Inventory modules.
* **Collaborated with cross-functional teams** to conduct usability testing and gathered user feedback, leading to a 20% increase in user satisfaction through UI/UX improvements.
* **Built and optimized REST APIs** using Flask, jQuery, and AJAX, ensuring seamless data exchange between front-end components and MongoDB databases.
* **Designed and maintained NoSQL databases** for LMS and Inventory modules using MongoDB, leveraging PyMongo for efficient data handling, indexing, and aggregation to support growing data needs.
* **Contributed to server deployment, database management, and backup processes**, ensuring the system's stability, scalability, and 99.9% uptime.
* **Technologies Used: Python, Django, Flask, MongoDB, HTML, CSS, jQuery, Git, Nginx, and Tomcat.**

EDUCATION

Indian Institute of Technology (IIT), Madras - Master of Technology 2017

Indian Institute of Technology (IIT), Hyderabad - Bachelor of Technology 2014

CERTIFICATIONS & AWARDS

* Microsoft Azure Fundamentals AZ-900 (05/2020 - Present)
* Accenture Technology Architect Associate Program (01/2020 – 05/2023)
* Mongo Certified Developer (06/2018 – Present)
* Accenture Excellence (ACE) Awards Winner – 2018, 2019, 2021