

Hemanta Thapa

FullStack Developer

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ABOUT

Full-Stack Software Developer with extensive experience designing scalable applications in the automotive and tech sectors. Proficient in Java, JavaScript, Node.js, and React, with a strong focus on microservices architecture and RESTful API development. Successfully implemented CI/CD pipelines and optimized databases to enhance system performance. Eager to leverage expertise in software development to drive innovation and efficiency in a Software Engineer role.

SKILLS

- **Programming Languages:** Java, JavaScript, HTML, CSS, TypeScript, Python
- **Frameworks & Libraries:** Spring Boot, Spring Framework (Spring MVC, Spring Data), JPA/Hibernate, Node.js, Express.js, React, Redux, Bootstrap
- **Cloud & DevOps:** AWS (EC2, S3, ECR, CloudFront), Docker, Jenkins, Redis, RESTful APIs, CI/CD
- **Databases:** MySQL, MongoDB, Redis
- **Tools & Technologies:** Git, Jira, Jest, JUnit, Postman
- **Methodologies:** Agile, Scrum, TDD, UI/UX Design

EXPERIENCE

HP, San Francisco, CA - Software Developer

June 2023 - PRESENT

- Developed dynamic, responsive web applications using React with optimized Redux state management, reducing page load times by 30% and improving user engagement across HP's platforms.
- Built and maintained a microservices architecture with Spring Boot and Node.js, enabling real-time data synchronization between HP devices and cloud services, facilitating seamless hardware-software integration.
- Enhanced API performance by implementing Express.js with caching layers (Redis), pagination, and asynchronous processing, reducing response times by 25% and supporting faster data retrieval for user interactions.
- Strengthened RESTful APIs with comprehensive role-based access and OAuth 2.0 authentication, enabling controlled access to device data while supporting secure, real-time data exchanges across multiple devices.
- Designed efficient data storage and retrieval processes for the HP Unified Device Configuration Portal, optimizing query performance for handling high volumes of device configurations, and maintaining 99% uptime to support critical enterprise operations.
- Automated CI/CD workflows using Jenkins with Docker for containerization, reducing deployment cycles by 40%, increasing release reliability, and enhancing the efficiency of pipeline processes.

- Collaborated in an Agile environment with cross-functional teams, managing sprint priorities, coordinating code releases, and ensuring feature delivery aligned with project goals and timelines.
- Reinforced data security across HP services by implementing TLS encryption for all external communications, ensuring encrypted data transfers, and adhering to compliance standards to protect sensitive information from external threats.

Environment: React, Redux, Node.js, Spring Boot, Express.js, Redis, MongoDB, AWS (S3, EC2, Lambda), Docker, Jenkins, Git, Agile, CI/CD

Ford Motors, San Francisco - *Software Developer*

March 2018 - April 2023

- Transformed backend microservices with Spring Boot and Node.js to support vehicle connectivity, integrating with third-party APIs for real-time data processing, enhancing customer features like vehicle diagnostics and location services.
- Assisted in the frontend redesign of the FordPass app using React and JavaScript, incorporating lazy loading and optimized component rendering, resulting in a 15% increase in app store ratings and improved user satisfaction.
- Improved MySQL database performance by optimizing indexing and query structure, reducing data retrieval times by 25%, accelerating vehicle data diagnostics and response times.
- Devised a CI/CD pipeline using Jenkins for automated testing and Docker for containerized deployments, reducing deployment times by 35% and supporting stable software releases across multiple environments.
- Led the migration of data-intensive applications to AWS EC2 and S3, cutting infrastructure costs by 30% while improving the scalability of FordPass to handle increased user activity.
- Developed and integrated RESTful APIs with OAuth 2.0 security, providing real-time traffic and vehicle diagnostics, contributing to a 20% increase in user engagement.
- Conducted thorough code reviews, emphasizing best practices in modularization and code efficiency, while contributing to an Agile framework to prioritize features and improve team workflow.
- Built and deployed custom monitoring tools for real-time tracking of vehicle diagnostics and performance metrics, allowing proactive maintenance alerts and improved customer support through predictive analytics.

Environment: React, JavaScript, Spring Boot, Node.js, MySQL, AWS (EC2, S3, CloudWatch), Docker, Jenkins, Git, RESTful APIs, Agile, API Security

EDUCATION

San Francisco State University, San Francisco, CA - *Bachelor's Degree | Computer Science*

CERTIFICATIONS

- AWS Certified Cloud Practitioner (CCP) – Obtained [Sep, 2024]