Rakesh Palle

Software Developer

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# PROFESSIONAL SUMMARY

Software Developer with solidexperience in backend optimization, API development, and cloud deployment. Proficient in **Java**, **Spring Boot**, and **React**, developed a Java-based microservice utilizing **OpenAI's** API for NLP-driven content analysis. Adept in deploying and optimizing applications on **AWS** using **Docker** and **Kubernetes.**

# EXPERIENCE

## Binghamton University | *Graduate Research Assistant* Aug 2023 - Present

 Built an automated prerequisite validation system using **JavaScript** and **SQL**, ensuring students meet course requirements before registration, improving enrollment accuracy **60%.**

 Conducted extensive performance testing, boosting **system reliability by 30%** by enhancing scalability and implementing effective load balancing strategies during high-demand periods.

 Integrated **Oracle database** with registration software to streamline data processes, significantly improving data management efficiency and **reducing errors** within faculty systems.

 Implemented **Python** automation scripts to streamline academic processes like grading and reporting, cutting manual operations by **90%** and promoting efficient data handling within the department.

## Our National Conversation | *Software Development Intern* Feb 2024 - Aug 2024

 Led the backend website redesign using Next.js with **Server-Side Rendering (SSR)**, improving load times and securing

**$120,000** in annual **Google Ads** funding for the non-profit.

 Implemented a **Java**-based microservice with **Spring Boot** to incorporate **OpenAI's** text embeddings for advanced **NLP** content analysis, supporting improved accuracy in the news aggregation system.

 Integrated social media posts (**Facebook**, **Instagram**, **X**) into the website using **GraphQL** and **REST APIs**, dynamically displaying social feeds and increasing user engagement and content visibility.

 Implemented a secure donation system by integrating **Stripe API**, allowing seamless public contributions while maintaining payment security, utilizing **JWT** for secure user authentication.

 Deployed application onto **AWS EC2** using **Linux** and **Docker**, improving system reliability and scalability.

 Worked closely with the **CTO** and **UI/UX team** to translate business objectives into technical implementations, effectively supporting the deployment of new features with minimal disruptions.

## Accenture, India | *Application Development Engineer* Sep 2021 - Dec 2022

 Utilized **Spring Boot** and **Hibernate** to streamline server-side operations for credit evaluation systems, achieving a **15%**

increase in data processing speed and enhancing application scalability.

 Developed interactive and scalable front-end solutions utilizing **React**, **HTML**, **CSS** and **JavaScript**, leading to a **35%**

enhancement in engagement metrics for clients in the telecommunications sector.

 Optimized **RESTful API** integrations to efficiently retrieve and process **Equifax credit data**, enhancing decision-making capabilities and reducing response times by **30%**.

 Implemented containerization strategies with **Docker** and **Kubernetes** for legacy application migration to **AWS**, resulting in a

**45%** increase in deployment efficiency and optimized resource utilization.

 Executed **SQL** script optimization in partnership with **Database Administrator**, leading to a **15%** increase in access speed and operational efficiency of database tables.

## Cutso Foods LLP, India | *Associate Software Engineer* May 2020 - Jul 2021

 Led end-to-end web application development utilizing **Java**, **Spring Boot**, and **React**, resulting in a **15% boost** in user engagement by enhancing responsiveness and functionality.

 Enhanced the reliability and effectiveness of **API** communications by implementing advanced **error handling** techniques and validations within **Spring REST controllers**, resulting in a **30%** increase in successful API calls.

 Enhanced application security by implementing role-based access control with **Spring Security**, achieving a **25%** reduction in

vulnerabilities and ensuring compliance with industry standards.

 Streamlined **CI/CD pipelines** for various **distributed systems**, reducing build and deployment durations by **10%**, enhancing speed and consistency of application updates.

# EDUCATION

**State University of New York at Binghamton** - *Master of Science, Computer Science* - *GPA: 3.97/4.00*

**Kakatiya University, India** - *Bachelor of Technology, Information Technology* - *GPA: 8.1/10.00*

# SKILLS

**Languages :** Java, Python, JavaScript, SQL, HTML, CSS

**Frameworks & Libraries :** Spring Boot, Spring Security, React.js, Vue.js, Bootstrap

**Database :** Oracle, MySQL, Microsoft SQL, PostgreSQL, MongoDB

**Development :** Agile, Scrum, Jira, SDLC, Microservices, REST APIs

**Tools & Technologies :** Git, Linux, AWS, Azure, Jenkins, Docker, Kubernetes, Postman

**Course Work :** Data Structures, Algorithms, Design Patterns, Operating Systems