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SUMMARY

Senior Software Engineer with 6 years of experience, specializing in frontend development and system architecture, with a PhD in Computer Science, known for delivering scalable and efficient backend solutions, and achieving significant performance improvements in production environments.

EXPERIENCE

Senior Software Engineer
VantaLabs, 2020–Present
- Led the development of a cloud-based e-commerce platform using React, Node.js, and MongoDB, resulting in a 30% increase in sales and a 25% reduction in latency
- Designed and implemented a microservices architecture using Docker, Kubernetes, and AWS, improving deployment uptime to 99.95% and reducing resource utilization by 20%
- Collaborated with the DevOps team to develop and implement a CI/CD pipeline using Jenkins, GitLab, and Bash, resulting in a 40% reduction in deployment time and a 15% reduction in errors
- Mentored junior developers and provided technical guidance on best practices and industry trends, resulting in a significant improvement in code quality and a 20% reduction in bugs

Software Engineer
HealthNet AI, 2018–2020
- Developed a machine learning-based patient diagnosis system using Python, TensorFlow, and scikit-learn, resulting in a 25% improvement in diagnosis accuracy and a 15% reduction in false positives
- Worked with the data science team to design and implement a data warehousing solution using Apache Spark, Hadoop, and MySQL, resulting in a 30% reduction in data processing time and a 20% improvement in data quality
- Contributed to the development of a mobile app for patient engagement using React Native, Firebase, and JavaScript, resulting in a 20% increase in patient engagement and a 15% reduction in hospital readmissions
- Participated in a hackathon and developed a prototype for a wearable device using Arduino, Python, and machine learning algorithms, resulting in a 25% improvement in patient outcomes and a 15% reduction in hospital stays

Junior Software Engineer
OpenSensor Project, 2016–2018
- Developed a sensor data processing system using C++, OpenCV, and Linux, resulting in a 20% improvement in data processing speed and a 15% reduction in errors
- Collaborated with the research team to design and implement a data visualization tool using D3.js, JavaScript, and HTML/CSS, resulting in a 25% improvement in data visualization and a 15% reduction in data interpretation time
- Contributed to the development of a web application for sensor data management using Django, Python, and MySQL, resulting in a 20% increase in data management efficiency and a 15% reduction in data loss
- Participated in the development of a technical documentation using Sphinx, Python, and Markdown, resulting in a 25% improvement in documentation quality and a 15% reduction in documentation time

PROJECTS

Personal Project: Smart Home Automation
2022
- Developed a smart home automation system using Raspberry Pi, Python, and machine learning algorithms, resulting in a 20% reduction in energy consumption and a 15% improvement in home security
- Integrated with various IoT devices using Zigbee, Z-Wave, and Bluetooth, resulting in a 25% improvement in device connectivity and a 15% reduction in device errors
- Designed and implemented a user interface using React, JavaScript, and HTML/CSS, resulting in a 20% improvement in user experience and a 15% reduction in user errors
- Published the project on GitHub and received positive feedback from the open-source community, resulting in a 25% increase in project visibility and a 15% improvement in project quality

Academic Project: Machine Learning-based Image Classification
2019
- Developed a machine learning-based image classification system using Python, TensorFlow, and Keras, resulting in a 25% improvement in image classification accuracy and a 15% reduction in false positives
- Collaborated with the research team to design and implement a data preprocessing pipeline using Apache Spark, Hadoop, and MySQL, resulting in a 30% reduction in data processing time and a 20% improvement in data quality
- Contributed to the development of a web application for image classification using Django, Python, and MySQL, resulting in a 20% increase in image classification efficiency and a 15% reduction in image classification errors
- Presented the project at a conference and received positive feedback from the academic community, resulting in a 25% increase in project visibility and a 15% improvement in project quality

TECHNICAL SKILLS

Languages: Python,