

Prem Salina

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SUMMARY




As a Senior Software Engineer, I specialize in crafting scalable and highly efficient software systems. My expertise spans full-stack development, adeptly applying agile methodologies, and fostering innovation through collaborative problem-solving.

EDUCATION

M.S. in Computer Science
University at Buffalo
Jan 2023 - May 2024

B.Tech. in Computer Science
Vellore Institute of Technology
July 2013 - May 2017

LINKS

 github
 linkedin
 website

SKILLS

Programming

Java • Python • JavaScript • C •
TypeScript • C++ • C# • SQL

Web Technologies

Node.js • Express • ReactJS • NestJS •
Spring • Spring Boot • Python Dash •
jQuery • Bootstrap • CSS

Databases

MySQL • PostgreSQL • Oracle-DB •
MS-SQL Server • MongoDB • DocDB

Applied Machine Learning

LLMs • CNNs • RNNs

Other Tools/Tech

AWS • Microservices • RESTful APIs
• Jira • Plotly • Postman • Docker • S3
• MATLAB • Hibernate • Azure

COURSEWORK

Graduate Studies

Information Retrieval
Natural Language Processing
Blockchain
Data Intensive Computing

Undergraduate Studies

Data Structures Algorithms
Operating Systems
Computer Networks
Software Architecture
Distributed Systems

EXPERIENCE

OpenText - Sr Software Engineer | Hyderabad, India

Oct 2021 - Jan 2023

- Led the development of Information Management Solutions leveraging OpenText enterprise content management (ECM) software, enhancing productivity, governance, and digital transformation for global clients.
- Designed scalable and robust architectures for Information Management Solutions, ensuring high performance and reliability in production environments.
- Enhanced the efficiency of content processing and analysis by integrating ML/NLP algorithms into frontend systems, reducing processing time by 20%.
- Contributed to significant improvements in user engagement and retention through the implementation of advanced technologies, resulting in a 10% increase in customer satisfaction
- Tech: Node.js, React, TypeScript, Python, AWS, SQL.

Tata Consultancy Services - Software Engineer | Hyd, India

June 2017 - Sep 2021

- **Bank of America:** Developed and maintained backend systems for Bank of America, specifically focusing on transaction processing systems, improving processing capacity by 30% through efficient backend system optimizations.
- Engineered and implemented high-performance solutions, enabling the system to handle over 10,000 transactions per second during peak loads, a 20% increase over previous capabilities.
- Optimized algorithms and code to improve system efficiency and scalability, utilizing techniques such as multi-threading and asynchronous processing during peak loads.
- Reduced system downtime by 25% through proactive troubleshooting and the strategic use of monitoring tools like Splunk for immediate issue detection and resolution.
- Tech: Java, Spring Boot, Apache Kafka, MongoDB, Redis, Kubernetes.
- **McKesson:** Contributed to the development and maintenance of a large-scale commerce application crucial to McKesson's operations.
- Collaborated within the architecture team to provide governance and oversight, ensuring adherence to best practices and scalability of the application.
- Led the development of REST-based APIs and intuitive web UIs using Java/Spring and TypeScript/React, substantially enhancing user engagement.
- Directed the deployment and management of cloud-native solutions on Azure, using Kubernetes for dynamic scaling, which improved deployment efficiency by 30%.
- Rapidly identified and resolved critical technical challenges, reducing system downtime by 20% and maintaining consistent service reliability.
- Tech: Java, Spring, TypeScript, React, Python, Azure, Kubernetes.

PERSONAL PROJECTS

Amazon Clone

- Developed an Amazon Clone using React, Firebase (Authentication, Database, Functions, Hosting), HTML, CSS, and React Context API, Node.js replicating key features of the e-commerce giant. Demonstrated proficiency in full-stack development, rapid prototyping, and seamless integration of complex systems.
- Checkout code on **GitHub**.

Mental Health Support Chatbot

- Developed a chatbot leveraging large language models (LLMs) for societal good, through a mental health support chatbot.
- Python, TensorFlow, PyTorch, Hugging Face Transformers, React, Node.js, AWS.

HONORS & AWARDS

Service Commitment Award - OpenText

- Honored for exceptional releases and dedication to service.

Employee of the Quarter - TCS

- Received for excellent contribution and defect free release.