

POOJA VELUCHAMY

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SUMMARY

Software developer skilled in building scalable applications, cloud architectures (Azure, AWS), and database management (MongoDB, Neo4j). Experienced in high-performance distributed systems, including AI-driven platforms. Pursuing a Master's degree and seeking an **full-time job** in software engineering.

WORK EXPERIENCE

Cognizant Technology Solutions India Pvt. Ltd.

Senior Software Developer

July 2021 – April 2023

J&J Customer Connect

Client: Johnson & Johnson

- Developed an e-commerce application in Spartacus framework with Angular based storefront.
- Assisted in requirement analysis, high level design and complex code development processes.
- Implemented responsive and mobile-friendly website contexts and elements.
- Communicated with line of business and managed the overall status and performance of application.
- Authored root cause analysis, user-acceptance testing reports and dashboard reports and presented them to project stakeholders.
- Mentored 3 new hires in the team and interviewed around 50 potential candidates.

VaccineShopper eCommerce Portal

Client: Sanofi

- Led a team of 3 developers as a module head and delivered the place order module of the application.
- Led the implementation of language translation method for the entire the application.
- Prioritized user stories and estimated story points in JIRA during Sprint planning, selecting stories from the backlog for upcoming sprints.
- Co-ordinated with the SAP Hybris team for API integration in frontend.

Accenture Services Pvt. Ltd.

Software Developer

November 2017 – June 2021

RIAD – Risk, Issues, Action and Decision

- Architected and implemented Single page application using C#, .Net core and Angular.
- Developed user-interactive web pages utilizing Angular, HTML5, CSS, and Bootstrap on the UI layer.
- Worked on database Management and backend support using MongoDB and SQL Server.
- Participated in code review, build and deployment using GIT, Azure devops.
- Designed and implemented unit testing module using XUnit for endpoints.
- Utilized Dependency injection to create loosely coupled classes.

My-Wizard Resource Management

- Utilized Angular 8 to develop web pages in a web application that manages the onboarding and offboarding of resources in My-Wizard.
- Worked as shared resource to support this application when there are spill overs in the sprint.
- Led the re-platforming effort for the Accenture Mobilization Management application, migrating it from SharePoint to ASP .NET MVC.

EDUCATIONAL QUALIFICATION

Master of Science, Engineering (Computer Science and Software Engineering)

December 2025

Bachelor of Engineering, Electronics and Communication Engineering Anna University

June 2017

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, C#, JavaScript, TypeScript, React, Nodejs
- **Frameworks:** Angular, .Net, Spartacus framework, SpringBoot
- **Development Tools:** Visual Studio Code, IntelliJ Idea, GitHub, POSTMAN, SourceTree, BitBucket
- **Web Technologies:** HTML, CSS
- **Databases:** SQL Server, MongoDB, Neo4j, Cassandra
- **Project Management & Methodologies:** MS Office, Jira, Waterfall, Agile

CERTIFICATIONS

- Microsoft Azure 900
- Neo4j

ACADEMIC PROJECTS

Distributed Blog Design and Implementation

- Architected a scalable and fault-tolerant blog platform using ZooKeeper for partition management and Kafka for real-time data updates.
- Developed APIs for core functions like user creation, messaging, and follower management.
- Ensured fault tolerance with a partitioned storage system and replication, handling server failures via dynamic reallocation.

AI-Powered Content Creator

- Developed an AI-driven content platform integrating ChatGPT for text generation and DALL-E for image creation, optimizing content creation for social media marketers.
- Designed a user-friendly interface with SEO tools and personalization features, enhancing visibility and audience engagement.

Scalable MongoDB Sharded Cluster Deployment on AWS

- Configured a sharded MongoDB cluster with 3 shards, 3 config servers in a replica set, and a mongos router, utilizing AWS instances, optimizing data distribution and load balancing across AWS instances.
- Executed data distribution and query optimization tasks, including range-based sharding with a public dataset, and documented the process with detailed steps and results.

Social Network Modeling with Neo4j

- Modeled a social network using Neo4j and designed a graph schema to represent users, posts, friendships, and likes.
- Developed Cypher queries to perform CRUD operations, extract mutual relationships, and analysed user interactions.
- Demonstrated proficiency in graph database concepts and Index Free Adjacency, and completed Neo4j Graph Academy certifications.

DBMS Implementation Project

- Developed a simple DBMS supporting DDL and CRUD operations with custom handling of storage, memory management, and file-based table management.
- Implemented commands for creating, updating, and querying tables, designed a system catalog, and managed data storage with a fixed-size memory allocation strategy.