

SILPA VIJAYAN GEETHA

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WORK EXPERIENCE

Frontend Engineer, 3UM

June 2024 -Present

- Developed responsive and user-friendly websites using TypeScript and React
- Created an Atomic SDK with reusable components using Storybook by designing and implementing a consistent component architecture, resulting in more efficient development across multiple projects

ReactJS | Typescript | NextJS | React Admin

Software Engineer Intern, Diaconia

June 2023 – Aug 2023

- Led a team to design and develop a chat application, architecting and optimizing data flow with AWS infrastructure, resulting in seamless document uploads and efficient query resolution
- Implemented prompt engineering to retrieve relevant responses based on user queries within documents

Streamlit | AWS Lambda | AWS S3 | Elastic Container Registry | Docker | Langchain | Open AI | Pinecone

Senior Software Engineer, IBS Software (IBS)

Apr 2019 – Nov 2021

- Contributed to the "iCargo" project by spearheading the development of dynamic web pages, which optimized cargo check-in services and revamped old web pages using React Redux and Struts Framework
- Contributed to the iCargo Android application development by utilizing React Native for feature implementation and bug fixing, improving overall app performance and user experience
- Enhanced code quality and reliability by increasing test coverage using Junit test cases from 20% to 95%

Oracle | JavaScript | ReactJS | Java | JSON | React Native | Struts

Software Engineer, National Informatics Centre (NIC)

Nov 2017 – April 2019

- Revamped the 'Secure' and 'Price' applications using the Spring Framework, improving performance by 40% through specialized solutions, resulting in more accurate cost analysis and efficient project approval.

jQuery | JavaScript | Java | JSON | Spring | Postgres

SKILLS

Programming Languages: C#, Java, Python, PHP, TypeScript

Web Technologies: Flask, JavaScript, jQuery, HTML5, CSS, AJAX, Tailwind

Databases: MySQL, PostgreSQL, Oracle, Pinecone, Hygraph

Frameworks: ReactJS, React Hooks, Redux, React Native, Node.js, Bootstrap, Laravel, Struts, Spring, MVC, Hibernate, Django, NextJS

Cloud Technologies: Microsoft Azure, Amazon Web Services (AWS), Google Cloud(GCP)

Others: Rest API, SOAP API, Git, Bitbucket, Design Patterns, Jenkins, JBoss, LaTeX, Gradle, Maven, SVN, Jira, Figma, Linux, Agile, Scrum, SDLC, Open AI, Langchain, LLM, Devops Tech – Docker & Terraform, AWS Lambda, AWS API, AWS ECR, Microservices, Junit, Mockito, Redis, GraphQL

EDUCATION

Master of Science in Computer Science

Dec 2023

The University of Texas at Arlington, Texas

GPA:3.9/4

Master of Engineering in Computer Science

Apr 2017

Kerala University, India

GPA:3.7/4

Bachelor of Engineering in Computer Science

Apr 2015

Kerala University, India

GPA:3.5/4

ACADEMIC PROJECTS

- DSC-BD System**
An application to detect botnet/malware on continuous data streams using a data stream clustering algorithm.
HTML | CSS | ASP.NET | C#
- One-Mart**
An application for students for forming clubs, buying/selling products, creating posts etc.
React | React Hooks | PHP | Laravel
- Online test application using AWS**
An timer based online grading system with an admin, tutor and student. Deployed and tested using 3 AWS instances for security, one for each user.
AWS | Python | Flask | HTML | CSS | JavaScript | MySQL
- AWS Data Repository Performance (Redis and SQL Database)**
To compare performance on SQL tables and from Redis: creating, querying, modifying data (tuples).
AWS | Python | Flask | HTML | CSS | JavaScript | MySQL

ACHIEVEMENTS

- Best Paper Award:** Won Best Paper Award for "Data Stream Clustering for Botnet Detection" at IEEE ICSNS 2018.
- Spot Award for Excellence in Performance:** Won Spot Award for iCargo project at IBS, 2020.