# SILPA VIJAYAN GEETHA

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## SUMMARY

Dedicated and highly motivated graduate student with 4 years of hands-on experience as a proficient software engineer, actively seeking full-time opportunities to leverage my robust technical expertise.

## PROFESSIONAL EXPERIENCE

**Frontend Engineer,** 3UM                                                                                                **June 2024 - Present**

- Developing responsive and user-friendly websites using modern frontend technologies.
- Collaborating effectively with cross-functional teams to deliver high-quality projects.
- Continuously exploring and integrating new tools and methodologies to enhance development processes and improve user experiences, including blockchain technologies (NFT, web3).
- Managing project timelines to ensure the timely delivery of features and updates.

**Software Engineer Intern**, Diaconia                                                                                  **June 2023 – Aug  2023**

- Collaborated with a team of four, designed and built "Talk to Your Document" chat application leveraging AWS infrastructure for seamless document upload and 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 "**iCargo**" project which is an air cargo management platform.
- Spearheaded the development of dynamic webpages that optimized cargo check-in services and revamped the old webpages using **React Redux** and **Struts Framework**
- Played a key role in bug fixing and addressing issues through rigorous testing and user feedback to ensure reliability and smooth functioning of the applications.
- Contributed to the iCargo Android app development as well using **React Native** and bug fixing.
- Maintained consistent project delivery meeting deadlines and ensuring client satisfaction throughout the project lifecycle.

**HTML | CSS | JavaScript | ReactJS | Java |JSON | React Native | Struts**

**Software Engineer,** National Informatics Centre (NIC)                                                 **Nov 2017 – April 2019**

- Collaborated on the "**Secure**" and "**Price**" project, a web-based government application for precise cost estimation and project approval.
- Built and implemented specialized web applications using Spring Framework to facilitate in-depth cost analysis.

**HTML | CSS | jQuery | JavaScript | Java | JSON |Spring**

## SKILLS

**Programming Languages**: C#, Java, Python, PHP, TypeScript
**Web Technologies**: Flask, JavaScript, jQuery, HTML5, CSS, AJAX ,Tailwind
**Databases**: SQL, PostgreSQL, Oracle, Pinecone, Hygraph
**Frameworks**: React JS, React Hooks, Redux, React Native, TypeScript, jQuery, Node JS, BootStrap, Laravel, Rest API, SOAP API, Struts, Spring, MVC, Hibernate, Django, NextJS, React Admin
**Cloud Technologies**: Microsoft Azure, Amazon Web Services (AWS), Google Cloud(GCP)
**Others**: Git,  Bitbucket, Design Patterns, Jenkins, JBoss, LateX, Gradle, Maven, SVN, Jira, Figma, Linux, Office 365, Agile, Scrum, SDLC, Open AI, Langchain, LLM, Devops Tech – Docker & Terraform, AWS Lambda , AWS API,  AWS ECR, Microservices, Junit, Mockito, Redis, Visual Studio Code, IntelliJ, Streamlit, Hashicorp

## 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 (Reddis and SQL Database)**
  To compare performance on SQL tables and from Reddis: 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.