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

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

Architected a document-centric chat application "Talk to Your Document" leveraging AWS infrastructure. This innovative system allows for the seamless uploading of documents, enabling users to submit queries about the document, whereupon pertinent responses are systematically retrieved using Prompt engineering and presented in a responsive manner.

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, enabling clients to effortlessly track their crew. Also, played a vital role in crafting the iCargo Android app. Consistently met project deadlines and upheld a commitment to delivering exceptional client service, ensuring client satisfaction throughout the project lifecycle.

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

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

Collaborated on the "Secure" project, a web-based government application for precise cost estimation and project approval. Developed specialized web applications for in-depth cost analysis, ensuring accurate estimates and expediting government project approvals.

HTML | CSS | jQuery | JavaScript | Java | JSON

SKILLS

Programming Languages: C, C++, C#, Java, Python, PHP
Web Technologies: Flask, JavaScript, jQuery, HTML5, CSS, AJAX
Databases: SQL, PostgreSQL, Oracle, Pinecone
Frameworks: React JS, React Hooks, Redux, React Native, jQuery, Node JS, BootStrap, Laravel, Rest API, SOAP API, Struts, Spring, MVC, Hibernate, Django
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, Elasticsearch, Microservices, Junit, Mockito, Redis, Visual Studio Code, IntelliJ, Streamlit

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

- **AWS Web Interface Picture Site**
  To provide a picture viewing and profile creating service and UI. The web page will display the images uploaded, profile entered by user and can be edited as well.
- **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
- **Game Winner Prediction**
  Predicting the winner of a kabbadi match using Logistic Regression Algorithm.
- **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
- **Titanic Survival Prediction Using Machine Learning**
  Used machine algorithms like SVM, Random Forest and Logistic Regression for the prediction of survivals from Titanic shipwreck.
- **Facial Emotion Recognition Using Deep Learning Methods**
  To classify images according to different emotions using CNN and compared the performance against various approaches.
- **Reddit Comments Classification Using Machine Learning Algorithms**
  To classify reddit comments into three topics such as Machine learning, Artificial Intelligence and Data Science using machine learning algorithms.

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.