Aathira Satheesh Nair

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https://portfolio-aathira.netlify.app

EDUCATION

University of Texas at Dallas — Richardson, Texas
Masters in Computer Science — *January. 2022 - Dec 2023*
GPA : 3.926/4

APJ Abdul Kalam Technological University — Kerala , India
Bachelors of Technology in Computer Science and Engineering — *August. 2016 - May 2020*
GPA : 8.7/10

PROFESSIONAL EXPERIENCE

Software Developer Intern — May 2023 - Present
Paycom — *Grapevine,Texas*
- Strategically devised the UI layout and design for Visual Studio and VS Code extension development.
- Developed a robust in-house VS code extension using TypeScript and VS extension using C# to enable Artifactory search via the JFrog Artifactory API improving data retrieval speed by 70%
- Implemented functionality to seamlessly query and interact with the Artifactory API from the back-end using Node.js and Express while also building efficient Data Transfer Objects.

Computer Science Grader — September. 2022 - May 2023
University of Texas At Dallas
- Graded 120 students' hands-on C++ lab assignments, ensuring timely and accurate assessment of student progress.
- Catalogued and conducted weekly office hours and lab sessions, teaching coding in C++ and resolving queries for an average of 20 students per session.

Assistant System Engineer — November 2020 - November 2021
Tata Consultancy Services — *Bangalore,India*
- Teamed with 28 people to deliver software solutions for a multinational science and technology company using Micro-Frontend architecture along with REST API integration using React, resulting in the successful transformation of the website from monolithic to micro-service architecture which provided 97% time savings on inventory management.
- Automated CI/CD pipeline with Gitlab, collaborated with client to add reusable code to libraries, enhancing micro-frontend efficiency and performance.
- Performed bug fixes, code reviews, and unit testing in Test Driven Development.
- Conducted demos at the end of every sprint, presenting the progress to the client.

PROJECTS

Sharing Password with Loved ones | *Flask,HTML,OAuth,Cryptography* — March 2023-May 2023
- Devised a web application enabling users to securely upload, store, and encrypt files in Google Drive utilizing Shamir's secret sharing algorithm for secure file sharing and controlled access.
- Incorporated robust features including file decryption ,password updates for enhanced security, and advanced file retrieval based on user-entered tags, providing a comprehensive and secure file management solution.

House Rental Web Application | *React, NodeJS, Express,MongoDB,REST API* — October 2022-December 2022
- Built a full stack web-based interface for home rentals, akin to Airbnb. The system enables users to enroll as guests or hosts and includes login feature.
- Hosts can add properties, mark listings as unavailable and view owned properties while guests can search for available listings, book accommodations, cancel reservations within a 48-hour window etc.

Doordash Database Design(Database Design Project) | *ERD,Oracle SQL* — April 2022 – May 2022
- Conceptualized and designed a database for a food delivery system similar to Doordash. Undertook requirement analysis, crafted an ER diagram, performed normalization, and generated tables using Oracle SQL.
- Established Triggers and stored procedures to achieve certain functionalities.

Customer Service Desk with React and Firebase | *React,Cloud Firestore,Firebase,Context API* — January 2021
- Constructed a customer help desk platform, allowing users to register and submit tickets for assistance. Utilized Firebase authentication to ensure only registered users has access to the portal.
- Adopted Firestore as the database system that stored history of tickets along with the corresponding status and React Context API for global state management.

Audio Conversion Application | *Flask,Python,HTML* — October 2020
- Modelled a website that transformed audio files into 5 different formats, available for download.

TECHNICAL SKILLS

Languages & Frameworks: React, Node.js ,Typescript, Flask, Java, JavaScript, Python, SQL , C, MongoDB, HTML/CSS, Express.js, Bootstrap, Material-UI, Spring Boot,Pandas,Keras,Tensorflow
Developer Tools: Git, VS Code, Docker, Kubernetes , Unity, Eclipse, Spring Tool Suite, Jupyter Notebook