

Aathira Satheesh Nair

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Education

University of Texas at Dallas

Jan 2022-Dec 2023

Masters in Computer Science, CGPA: 3.926/4

Richardson, Texas

- Relevant Coursework: Web programming Languages, Design and Analysis of Algorithms, Database Design

APJ Abdul Kalam Technological University

Aug 2016-May 2020

Bachelors of Technology in Computer Science and Engineering, CGPA: 8.7/10

Kerala, India

Technical Skills

Languages: Typescript, Python, Java, Javascript, C# , HTML/CSS, C++

Databases: SQL, MongoDB, Firebase

Tools & Technologies: Git, Docker, JIRA.

Frameworks: React, Flask, Node.js, PySpark, Bootstrap, Express.js, Hadoop, Redux, Material-UI

Experience

Software Developer Intern

May 2023 - Aug 2023

Paycom

Grapevine, Texas

- Engineered a robust in-house VS code extension using TypeScript and React, and a VS extension using C to enable Artifactory search via the JFrog Artifactory API, significantly enhancing data retrieval speed by 70%.
- Orchestrated the successful integration of a Treeview feature to assess project dependencies' statuses, resulting in a significant 25% improvement in project management and visibility.
- Developed seamless querying and interaction with the Artifactory API from the back-end using Node.js and Express. Achieved optimization in the creation of efficient Data Transfer Objects.
- Implemented CI/CD pipelines on Gitlab to package the extension and deploy on Artifactory for internal organization use.

Student Assistant - Computer Science Grader

Sept 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 - Frontend Developer

Nov 2020 - Nov 2021

Tata Consultancy Services

Bangalore, India

- Collaborated with 28 member team to implement Micro-Frontend architecture and REST API integration, leading to a successful monolithic-to-micro-service transformation for a multinational science and technology company's website.
- Achieved a significant 97% reduction in time spent on inventory management.
- Automated CI/CD pipeline with Gitlab, partnered with client to add reusable code to libraries, enhancing micro-frontend efficiency and performance.
- Improved software quality through bug fixes, code reviews, and unit testing in a Test Driven Development framework, regularly showcasing progress in sprint demos.

Projects

Sharing Password with Loved ones | *Flask, HTML, OAuth, Cryptography*

- Devised a web app for secure file management on Google Drive using Shamir's secret sharing algorithm.
- Incorporated features including encrypted file storage, password updates for security, and advanced file retrieval via user-entered tags.

House Rental Web Application | *React, NodeJS, Express, MongoDB, REST API*

- Built a full stack web-based interface for home rentals, akin to Airbnb allowing users to register as guests or hosts, log in, and perform actions such as property listings, bookings, and cancellations within a 48-hour window.

Doordash Database Design(Database Design Project) | *ERD, Oracle SQL*

- Conceptualized and designed a database for a food delivery system similar to Doordash. Undertook requirement analysis, crafted an ER diagram, applied 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*

- Constructed a user-friendly help desk platform with Firebase authentication for registered user access.
- Utilized Firestore for ticket history and status storage, and employed React Context API for global state management.

Audio Conversion Application | *Flask, Python, HTML*

- Designed a website that transformed audio files into 5 different formats, making them available for download.