FARHAD CADER

Undergraduate BScEng (Hons) in Computer Engineering

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SUMMARY

Following a Bachelor's degree in computer Engineering with comprehensive expertise in data structures and algorithms, OOP, and object-oriented design patterns. Proficient in JavaScript, Python, C++, C# and C languages, with a solid understanding of database concepts. Skilled in MERN stack and Spring Boot frameworks, with experience in mobile app and web app development. Knowledgeable in machine learning and deep learning techniques. Adept at utilizing Git and Jira for efficient version control and project management. Seeking internship opportunities to gain hands-on experience and contribute to impactful projects in software engineering, leveraging my technical expertise and passion for enhancing software development processes.

TECHNICAL SKILLS

Technical Fields: Data Structures and Algorithms, OOP, Machine Learning, Design Patterns,DBMS, NoSQL
Languages/Databases: Python,Java, JavaScript, SQL, C++, C, C#, MySQL, MongoDB, Firebase
Tools/Frameworks/APIs: Node, Express, Spring Boot, REST API, React, Flutter, WPF, Bootstrap, Tailwind, Pandas, Scikit-learn, Git, Jira, AWS, VS Code, Intellij IDEA, PyCharm, Anaconda, Postman
Soft Skills: Problem-Solving, Communication, Organization and Time Management, Teamwork, Critical Thinking, Diligent, Interpersonal, Multitasking

PROJECTS

Automated Grading System for Coding Assignments

Web Application

- Implemented features allowing lecturers to create coding contests and students to enroll and submit their solutions and Utilized APIs for evaluating student codes based on test cases and expected outputs.
- Technologies used: MongoDB, Express.js, React.js, Node.js, HTML, CSS, JavaScript, Git, Figma, Tailwind, Monaco Code Editor.

Live Train Tracking System

Web Application

- Implemented the back-end using Spring Boot framework to handle train schedule updates and user interactions.
- Implemented features allowing users to add trains to the updating train schedule and mark the current railway station of trains based on the train timetable.
- Technologies used: Spring Boot, React, MySQL, HTML, CSS, JavaScript, Bootstrap,Git, Figma

Online Food Ordering Mobile App

Mobile Application

- Developed a mobile application for online food ordering using Flutter framework and Firebase for back-end.
- Implemented features allowing users to browse menus, place orders, and make payments using Stripe payment gateway.
- Technologies used: Flutter, Firebase, Dart , Stripe ,Git

Student Registration System

Desktop Application

- Designed and developed a desktop application to streamline the student registration process and manage student data efficiently.
- Implemented CRUD operations for managing users, students, courses, and modules with an intuitive user interface. Incorporated a GPA calculation
- Technologies used: WPF, C#, XAML, SQLite

Football Win Prediction

Machine Learning

- Conducted a machine learning project to predict football match outcomes using supervised learning techniques Implemented and compared the performance of two popular algorithms: Random Forest and Decision Trees.
- Evaluated the models' performance using metrics such as accuracy, precision, recall, and F1-score.

Education

University of Ruhuna

BScEng (Hons) in Computer Engineering undergraduate   *2021 – Current*

Holy Cross College, Kalutara

GCE Advanced Level – Mathematics   *2016-2018*

Muslim Central College, Kalutara

GCE Ordinary Level   *2005 - 2015*

Certifications

Python - HackerRank,University of Moratuwa, Sololearn

Python for Data Science, AI and Development - IBM

Problem Solving - HackerRank

Java - Codefinity

DevOps with AWS - Linkedin

Advanced React - Meta

Version Control with Git - Linkedin

Introduction to Cloud Computing - IBM

Introduction to Back-End Development - Meta

SQL - codecademy

Introduction to Front-End Development - Meta

C Sharp - HackerRank

C++ - Linkedin

C - Sololearn

Awards and Achivements

Eminence 2022 — Winners
Intrafaculty hackathon competition organized by Women in Engineering Affinity Group, IEEE Student Branch, University of Ruhuna

HackerRank Achievements
Gold Badge in Problem Solving, Algorithms, Python, C and C++. (hackerrank.com/profile/FourZeroFour)

References

Dr. Kushan Sudheera
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Dr. S. H. K. K. Gunawickrama
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