ANUJA GEETH

Computer Engineering Undergraduate

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Profile

A passionate and driven Computer Engineering student with a strong foundation in software development, web technologies, and machine learning. I thrive in solving complex technical challenges and have a keen ability to adapt to new technologies quickly. With a collaborative mindset, I excel in team environments, contributing innovative ideas and efficient solutions. My hands-on experience has equipped me with the skills to build scalable and user-friendly applications. Beyond academics, I actively participate in open-source contributions, coding competitions and creative pursuits. I am eager to apply my skills and continuously learn in a dynamic industry setting.

Education

University of Ruhuna   2022 - present
B.Sc. Engineering (Hons) in Computer Engineering
- **GPA:** 3.0

Dharmapala College Bandarawela   2018 - 2020
G.C.E. Advanced Level (Physical Science)
- **Z-Score:** 1.9183

Work Experience

Mathematics tutor   2020 - 2023
Conducted mathematics tuition for Advanced Level and Ordinary Level students

Technical Skills

- **Languages**   : C, C++, JavaScript, Java, HTML, CSS, Python
- **Web development**   : MERN (React.Js, Express.Js, Node.Js, MongoDB)
- **DBMS**   : MongoDB, MySQL
- **Software Development**   : OOP, Agile - Scrum, Design patterns, JIRA, Docker, Jenkins
- **Machine Learning**   : Pandas, Numpy, Scikit-learn
- **Version Control**   : GIT, GitHub
- **Design**   : Figma
- **Cloud platforms**   : Firebase

Soft Skills   : Teamworking, Time management, problem solving

Projects

- **Laboratory Management System**
  React.Js | Node.Js | Express.Js | MongoDB | FireStore

  This system aims to simplify the laboratories and related procedures of the Department of Electrical and Information Engineering. The main goal of this project is to manage the inventory of the department. Also, there are more features to generate inventory reports, manage users, equipment check-in and check-out and laboratory booking.

- **Weather Prediction Using LSTM**
  Python | Pandas | NumPy | Matplotlib | Seaborn | Scikit-learn | TensorFlow (Keras)

  Developed a deep learning model using LSTM to forecast daily mean temperature based on a time-series weather dataset of 30 cities in Sri Lanka. The project involved feature engineering, handling missing values, scaling data, sequence generation, and evaluating performance using MAE, RMSE, MSE, and R^2. Achieved high prediction accuracy and strong generalization on unseen test data.

- **Task Management System**
  React.Js | Node.Js | Express.Js | MongoDB | Google OAuth 2.0 | Passport.Js | JsPDF

  A full-stack task management system that enhances productivity by allowing users to manage tasks efficiently with deadline tracking, personalized lists, and real-time status updates. Features include secure authentication, a statistical dashboard, and automated PDF report generation for task summaries.

- **Social Media WebApp with CI/CD and Cloud Deployment**
  Docker | Jenkins | Terraform | Ansible | AWS EC2 | MERN

  Built a full-stack social media web application to explore modern DevOps practices. Integrated a CI/CD pipeline with Jenkins to automate building, testing, Dockerizing, and pushing images to Docker Hub. Used Terraform for provisioning AWS EC2 infrastructure and Ansible for remote software installation and deployment.

- **Telecommunication Company Customer Churn**
  Python | NumPy | Pandas | Scikit-learn

  A machine learning model is developed to predict whether a customer will retain or leave the company using some specific features and a dataset. Keggle, feature engineering and some other machine learning algorithms were used.

- **Travel Planning Website**
  React.Js | Node.Js | Express.Js | MongoDB

  This website is a full-stack MERN application that allows users to plan trips by choosing the cities to visit, hotels to stay at, to get their meals and calculate the total budget.

- **Tourist Hotel Guide System**
  C++ | Data Structures & Algorithms

  This hotel guide system helps tourists to find hotels and details according to their budget easily. The system is utilized using a combination of hash tables and dynamic arrays with a sorting algorithm.

Extra Curricular Activities

- **Graphic Designing**
  Worked as a graphic designer for our faculty team in the Techno Exhibition at BMICH, creating banners and digital assets.
  Portfolio link: https://web.facebook.com/ColorGcreations

- **Photography & Videography**
  Captured high-quality photographs and produced/edit numerous videos, showcasing creativity and technical proficiency in visual storytelling. Additionally, covered faculty events to document and highlight key moments.
  Portfolio link: https://web.facebook.com/anujaphotography.lk

- **Teaching**
  Worked as a teacher in "Mehewara" flagship programme organized by the Students' Union of the Faculty of Engineering, University of Ruhuna.

Interested in

- **Software Engineering**
- **Web Development**
- **UI/UX Development**
- **Machine Learning & AI**
- **DevOps Engineering**

Referees

- **Mr. Neel Karunasena**
  Senior Lecturer
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- **Mr. Krishan Wickramasinghe**
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