

Akshar Patel

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EDUCATION

Georgia State University

Master of Science in Computer Science. GPA:3.77/4.0

Atlanta, Georgia

Aug 2023 - Dec 2025

Vardhaman College of Engineering

Bachelor of Technology in Computer Science and Engineering- CGPA:3.39/4.0

Hyderabad, Telangana

Aug 2019 - May 2023

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, PHP, R, Dart, XML

Technologies/Frameworks: Flutter, Data Structures and Algorithms, Networking Protocols, Cloud Infrastructure, React, Angular.js, JSON, UI/UX, Flask, WordPress, Rest APIs, Bootstrap, Agile Methodologies, Linux/Unix

Databases: MySQL, MongoDB, Google Firebase

Developer Tools: Git, Visual Studio Code, Testing and Debugging, Eclipse, MySQL Workbench, Google Cloud Platform, AWS, PyCharm, IntelliJ, Google Colab, UML, MS Office

Libraries: pandas, NumPy, Matplotlib, SKlearn, NLTK

EXPERIENCE

Graduate Research Assistant

Georgia State University

Aug 2023 – Present

Atlanta, Georgia

- Enhance user experience and effectiveness of GSU website by improving page loading speed, utilizing asynchronous loading and content delivery networks (CDN) to distribute content across multiple servers, reducing latency.
- Additionally, Optimize on-page elements with targeted keywords to improve a website's visibility and ranking on search engine results pages (SERPs), ultimately driving organic traffic by potentially increasing it by 5-10 %.

Full-Stack Developer Intern

Brainovision Solutions

Sep 2021 – Nov 2021

Hyderabad, India

- Worked on a project called Key-Logger, which intercepts and records keystrokes by utilizing low-level keyboard hooks and event listeners, then writes to a local log file including timestamp, keys pressed, and active application.
- Software includes the functionality to transmit logged data over SMTP to a predefined address by employing AES-Encryption and compression techniques, to secure the logged data and minimize file size.

PROJECTS

VibeNet - The new age social media app | *Flutter, Dart Programming Language, Google Firebase* Dec 2023

- VibeNet offers intuitive interface and attractive layouts, utilizing flutter's widget-based approach. Animations and transitions are seamlessly integrated using Flutter's animation APIs, elevating the overall user experience.
- Data integrity and security is maintained with Firestore security rules, controlling access and enforcing data validation, while User authentication and authorization are secured with Firebase Authentication.
- Also, Firebase Cloud Messaging is implemented to send timely notifications for new messages and friend requests.

Home Harbor – A New Life, A New home | *React, JavaScript, PHP, MySql*

Oct 2023

- The application's user interface components are built using the React.js library, while Redux manages application state, focusing on user preferences and search criteria and Laravel is utilized for efficient backend development.
- Third-party APIs are integrated for geolocation services, including property mapping and visualization. Moreover, Predictive analytics algorithms are used to derive property insights from historical and real-time data, and the results are modelled using libraries like Chart.js to forecast future market trends using MySql for Database.

Prevention and Detection of SQL Attacks using ML | *Machine Learning, Flask, Django*

March 2023

- The model was built using SVM algorithm and trained on multi-source dataset consisting of 20,000 entries, achieving an impressive accuracy rate of around 92.56% in detecting attacks as they occur.
- Moreover, to prevent malicious code from deceiving the Database, parameterized Stored Procedures and filtering incorrect string literal escape characters in SQL statements have been implemented, Enhancing security further.

Crop Yield Prediction using Machine Learning | *Machine Learning, Weather API, PHP*

July 2022

- Developed a ML-based system which predicts the yield of a particular crop in metric tons by taking into account a variety of factors including location, soil type, weather, and crop type.
- Constructed using Random Forest Algorithm, this model achieves accuracy rate of 89 %, outperforming traditional regression methods by 6 %. Moreover, It is integrated into a website using Django for backend connectivity.