Akshit (Aarambh) Sanoria

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Education

University of Maryland, College Park **Expected December 2024**
Bachelor of Science in Computer Science, Minor in Human Development
Relevant Coursework: Object-oriented programming and data structures; Statistics; Computer Systems in C, Functional Programming, and Assembly; Discrete Structures; Algorithms; Statistics; Data Science; Intro to Artificial intelligence;

Arizona State University (Computer Science track) **August 2021 - August 2022**
Dean's List of Ira A. Fulton Schools of Engineering

Technical Skills

Programming Languages: Java, Python, Ruby, C/C++/C#, OCaml, Dafny, Haskel, Rust, SAS, JavaScript, Typescript, Swift
Web Technologies: HTML, CSS, EJS, React, NextJS, NodeJS, Selenium, TensorFlow, PyTorch
Other Technologies: SQL, .NET, Tableau, JUnit, AWS, UIKit, Git, Docker, Postman, DevOps Unix/Linux Environments

Experience

Tekizma | Spark, Python, Java, Kubernetes, Node.js **August 2024 - Present**
Software Engineering Intern *Herndon, Virginia*
Iowa State Dining **February 2021 - July 2021**
Student Employee *Ames, Iowa*

- Managed transactions with accuracy; Enhanced effective communication, teamwork, and time management skills by working effectively under pressure and collaborating with coworkers and management.

Jaypee University of Engineering and Technology [1] **January 2020 - April 2020**
Research Intern *Guna, India*

- Worked as research assistant under a professor and collaborated with two other master's students on the publication of a research paper on Fiber Reinforced Composite Plates Subjected to Transient Dynamics in a leading scientific journal.
- Utilized ABAQUS software to perform finite element analysis, and conduct analytical simulations ensuring precise and reliable results for the research study, while receiving constructive feedback to enhance the quality of the research.

Relevant Projects

FlixFriends | React.js, ASP.NET, SQL, Python **June 2024 - Present**

- Implemented a social platform for TV shows and movies to discover, rate, review, and discuss content, including user profiles, interactive discussions, and content recommendations between friends.
- Capitalized on **ASP.NET** and **SQL** for backend services like authentication and data management, and **React.js** for the frontend. Integrated machine learning with **Python** for personalized recommendations.
- Refined user experience and engagement with features like interactive reviews, and gamification through leaderboards.

Stock Prediction | Seaborn, Numpy, Matplotlib, Python, Pandas, NumPy, Statistical Analysis **May 2024**

- Conducted a comprehensive time-series analysis of the top 10 most traded **S&P 500 stocks** to predict future stock values for trading and understand financial markets.
- Manipulated stock data for 2004 - 2024, generated visualizations, and executed comparative and growth rate analysis of stocks to identify the best performing model and applied deep learning methodologies like **Recurrent Neural Networks** (RNN) to project stock trends achieving the accuracy of 94%.

WhatFlower | Swift, UIKit, Core ML **August 2023**

- Developed an iOS application for flower species identification, leveraging Core ML with VGG16 model and the Vision framework for image processing and prediction.
- Integrated the Wikipedia API for fetching detailed descriptions and images of identified flowers, using Alamofire for network requests, SwiftyJSON for handling JSON data, and SDWebImage for asynchronous image loading.
- Boosted user experience by achieving high accuracy in flower identification, providing informative content from Wikipedia, and improving app performance and responsiveness.

BitConnect (Hack-a-thon Project) | REST API, Google Authentication, Google Firestore, NextJS **April 2023**

- Designed and implemented an agile full stack secure user-centered chat application using **NextJS**, **React** Native for the frontend, and integrating with the **ChatEngine API** for chat hosting.
- Operationalized **Agora API** for video calling, achieving a **50%** reduction in latency, and ensuring an average call connection time under 3 seconds, enabling a maximum of **8 participants** on a single call.
- The backend was hosted on the **google cloud web service** and employed **Firebase authentication,** allowing users to log in securely using their Google accounts.