Abdullah Bin Altaf

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ABOUT ME

Versatile developer with expertise in Web Development, AI, Mobile Application Development, Data Science, DevOps, and Machine Learning. While skilled in various domains, I am most passionate about crafting web solutions and utilizing AI to solve complex challenges.

EDUCATION

Abasyn University Islamabad Campus

Bachelor of Science in Computer Science <div align="right">In Progress</div>

Concentration: Artificial Intelligence, DevOps, <div align="right">GPA: 2.69/4.00</div>
Web Development

EXPERIENCE

Headstarter

Software Engineering Fellow <div align="right">July 2024 – Sep 2024</div>

- Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, Stripe, Vercel, OpenRouter API, Hugging Face API, Pinecone and much more.
- Worked in a team of 3 to develop an interactive customer support agent using Next.js, and gpt-3.5-turbo LLM via OpenRouter API to generate the responses.
- Collaborated with 3 Fellows to build and deploy a SaaS product that generates dynamic flashcards based on books using the gpt-3.5-turbo LLM via the OpenRouter API, integrated a paywall and custom pricing plans using the Stripe API.
- Collaborated in a team of 3 during the Headstarter fellowship to develop Rate My Professor, an AI-powered platform utilizing Hugging Face, Pinecone, and Next.js to help students easily search and find professor ratings and reviews.
- Participated in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups.
- Participated in a Hiring Hackathon and did a project submission for Pam Auto.

SKILLS

Web Development: HTML | CSS | JavaScript | Bootstrap | React.js | Next.js | Material UI
Data Science / Artificial Intelligence / Machine Learning: Python | Pandas | NumPy | Matplotlib | Scikit-Learn | RAG | Data Preprocessing | Regression Models | Classification Models | Google Colab | Jupyter Notebook | OpenRouter API | Pinecone | Hugging Face API | Embeddings | LLM
Mobile Application Development: Flutter | Dart | Android Studio
DevOps: Linux | AWS | Git | Docker | Shell Scripting
Version Control System: GitHub | GitLab | Bit Bucket
Others: C++ | C | Java | Firebase | Clerk | Stripe | Vercel | Netlify | GitHub Pages

PROJECTS

EC2 Web Deployment Pipeline • [GitLab Repository](#)

- Created an index.html page, containerized it using Docker, uploaded the image to Docker Hub, implemented a CI/CD pipeline with GitLab CI, and deployed the page on an EC2 instance.

Pantry Tracker • [GitHub Repository](#)

- Developed a pantry tracking tool that generates recipes based on available ingredients. Utilized Firebase for saving pantry items and the OpenRouter API for recipe generation, enhancing meal planning and utilization of pantry resources.

FlashBook • [GitHub Repository](#)

- Built a flashcard generation tool for books where users can enter the title and author to create and save flashcards in a collection. Utilized Clerk for user authentication, Stripe for payment processing, and Firebase for database storage.

SafeMail Assistant • [GitHub Repository](#)

- Developed an AI customer support chatbot for SafeMail using the OpenRouter API, with Firebase for user authentication and storing reviews and feedback, enhancing customer service efficiency and user interaction.

GitHub Profile README Generator • [Live Demo](#) • [GitHub Repository](#)

- Created a tool to generate customizable and informative GitHub profile READMEs, allowing users to easily build sections for bio, skills, and more, enabling them to enhance their personal brand on GitHub.

Proff. • [GitHub Repository](#)

- Developed Proff. AI Assistant, a web application utilizing Next.js, OpenAI, and Pinecone to help students search for and rate professors while offering personalized recommendations and insights through AI.

Pam Auto Voice Assistant • [GitHub Repository](#)

- Developed a cutting-edge project for Pam during the Headstarter hackathon, leveraging React, OpenRouter AI, and Material UI to enhance customer experiences with AI-powered speech recognition.

COMPETITIONS / WORKSHOPS

Show Me the Code Competition 09/12/2021
Participated in the competition, organized by GREPBING.
Machine Learning with Python 21/03/2024
Attended the workshop, organized by IEEE Islamabad.
RAG Workshop with OpenAI, LangChain, & Pinecone 10/08/2024
Attended the workshop, organized by Headstarter.

ADDITIONAL LINKS

- [Hashnode](#)
- [Medium](#)
- [GitLab](#)