

Abhinav Kamballoor Kottayil

App & Machine Learning Developer

Dubai, United Arab Emirates

Visa Status: Valid Dependent UAE Residence Visa

Driving License: Valid UAE & India Driving License

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EDUCATION

• BSc Hons. in Computer Science (Artificial Intelligence)

Class of 2024

Heriot Watt University, Dubai, United Arab Emirates

- First Class Honours Graduate in BSc (Hons) Computer Science (Artificial Intelligence).
- Awarded Deputy Principal s Award for attaining 6 or more A's in a academic year in Year 2, Year 3 and Year 4.
- **Relevant Courses:** Data Structures & Algorithms, Artificial Intelligence & Intelligent Agents, Intelligent Robotics, Data Mining & Machine Learning, Software Engineering, 3D Graphics & Animation, Computer Games Programming, Data Visualization & Analytics

EXPERIENCE

• Node.js Developer Intern @ Amrutam Ayurveda

June 2023 - September 2023

- Worked on Node.js backend & MongoDB Database for the mobile apps.
- Created APIs for different functionalities such of the mobile apps and migrated code using older version of AWS SDK to newer version.
- Developed appointment filtering functionality and AI Grammer checker using OpenAI API in the React Native app which improved usability.
- Collaborated with front-end developers on the integration of APIs with the mobile app.
- Played a vital role in fixing issues, configuring and publishing the React Native to iOS app store.

• Software Development Intern @ ExpandAcross

May 2022 - August 2022

- Created landing pages using HTML, CSS and JS.
- Created custom developer cost calculator component for company's website
- Managed and updated company's corporate website and added functionalities for marketing purposes.

PROJECTS

• AI Content Studio

Generate videos for social media with a single prompt.

- This project was built during a 24Hr Compass Hackathon in Abu Dhabi, UAE by a team of 5.
- Utilized the power of OpenAI's GPT4-o to create scripts, keywords to search for videos and OpenAI Whisper to generate subtitles and create the video.
- Supported languages were English, Arabic, Hindi, Chinese, Italian, French, Malayalam, Russian and Tamil
- App can be used to create videos of different orientations and video lengths which is tailored to different social media platforms.
- **Technology Used:** Python, Streamlit, MoviePy, OpenAI API, Pexels API

• StarCraft Game Outcome Prediction Using Machine Learning

Predicting winners of a 2 player Starcraft match using Machine Learning.

🐙 *Project Repository*

- Created a robust pipeline to preprocess raw StarCraft replay data (.rep files) and build machine learning models for predicting match outcomes with high accuracy.
- Leveraged in-game data, including player characteristics, to train algorithms capable of recognizing patterns and strategies associated with winning teams.
- Developed an interactive GUI application enabling users to input various feature sets and receive real-time win percentage predictions for both players.
- **Technology Used:** Python, Sci-Kit Learn, Numpy, Pandas, TensorFlow, Tkinter

• SnapScrap - AR Scrapbooking Platform

A cross platform mobile AR Scrapbooking platform.

- Full stack mobile application with features such as home page feed, profile, nearby scrapbooks and shopping tab.
- Implemented AR feature using Native Android Modules in React Native.
- **Technology Used:** React Native, JavaScript, Firebase

• Full Stack Blog App

🐙 *Mobile App Frontend*

A simple full stack mobile blog app with authentication and database.

🐙 *Mobile App Backend*

- React Native blog app with CRUD operations and liked posts.
- Backend with Node.js and MongoDB database.
- **Technology Used:** React Native, Node.js, MongoDB

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, Java, JavaScript, C

JavaScript Libraries/Frameworks: React.js, React Native

Machine Learning: Numpy, Pandas, scikit-learn, TensorFlow

Cloud/Databases: MongoDB, Firebase, Relational Database (MySQL), PostgreSQL, AWS S3

Backend: Node.js, Hasura, GraphQL

Tools: VSCode, Git, GitHub, WordPress

Areas of Interest: Web Design and Development, Mobile App Development, Artificial Intelligence, Machine Learning