CV

SOFTWARE DEVELOPER

PERSONAL INFORMATION

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EDUCATION

- **Institution:** Kenyatta University
  Course: Bachelor of Science in Computer Science
  Date: 11/2020 – Present

- **Institution:** Maranda High School
  Date: 02/2016 – 11/2019
  Grade: A-

PROJECTS

Project: Voice-to-Text Journal Application (Built with Flutter)
Date: 06/2023 - Present
Description:

I led the development of a specialized journaling application using the Flutter framework. This innovative app was designed to simplify and enhance the journaling experience by allowing users to effortlessly record voice messages, which were then automatically converted to text and securely stored. This project aimed to cater to individuals seeking a convenient and efficient way to document their thoughts and experiences, especially in scenarios where typing may be impractical or time-consuming.

Key Achievements and Responsibilities:

1. Design and Development: Spearheaded the end-to-end development of the application, from conceptualization to deployment. Collaborated closely with a team of developers to create a user-friendly and intuitive interface.
2. Voice-to-Text Conversion: Implemented advanced voice recognition technology to enable seamless conversion of recorded voice messages into text format. This feature significantly reduced the effort required for journaling.
3. Secure Data Storage: Ensured the privacy and security of user data by implementing robust encryption and storage mechanisms. Users could trust that their personal journal entries remained confidential.
4. User Experience Enhancement: Conducted user testing and feedback analysis to continuously improve the app's usability. Implemented user-centric features and design enhancements based on user input.
5. Cross-Platform Compatibility: Leveraged Flutter to build a cross-platform application, ensuring accessibility to both Android and iOS users, thereby maximizing the app's reach.
6. Documentation and Support: Created comprehensive documentation for users and provided ongoing technical support to address user inquiries and issues promptly.
7. Outcome: The Voice-to-Text Journal Application received positive feedback from users who appreciated its convenience and efficiency. It served as an innovative solution for those seeking an alternative to traditional text-based journaling, making the process more accessible and enjoyable.

This project showcased my expertise in mobile app development, user experience design, and the integration of cutting-edge technology to address practical user needs. It demonstrates my ability to lead and execute projects that combine technical proficiency with user-centric design principles.

Project: Location-Based Relaxation and Entertainment Recommendation App (Google Maps API Integration)
Date: 06/2023 - 08/2023
Description:

I took the helm in developing an innovative mobile application that harnessed the power of the Google Maps API to offer users tailored recommendations for relaxation and entertainment venues within a specified geographic radius. This project was conceived with the goal of enhancing the user's leisure experiences by providing personalized suggestions for nearby places to unwind and have fun.

Key Achievements and Responsibilities:

1. Conceptualization and Planning: Orchestrated the project's inception, defining the app's objectives and scope. Collaborated closely with a multidisciplinary team to lay the foundation for a robust recommendation system.
2. Google Maps API Integration: Leveraged the Google Maps API to obtain real-time location data and establish a dynamic mapping interface. This allowed users to view their current location and explore nearby attractions effortlessly.

3. Recommendation Engine: Designed and implemented a recommendation engine that factored in user preferences, such as relaxation, entertainment interests, and input radius. The system provided personalized recommendations based on these criteria.
4. User-Friendly Interface: Led the development of an intuitive and visually appealing user interface, ensuring a seamless user experience. Incorporated interactive map features that allowed users to explore recommended places conveniently.
5. Location Services: Integrated location-based services to track and update the user's position accurately. Utilized geospatial data to identify nearby leisure destinations.
6. Customizable Radius: Empowered users to define their preferred search radius, granting them control over the distance within which recommendations were generated.
7. Review and Rating System: Implemented a review and rating system, enabling users to share their experiences and contribute to the app's community-driven content.
8. Feedback Integration: Incorporated user feedback mechanisms to continuously enhance the app's recommendations and user satisfaction.
9. Cross-Platform Compatibility: Developed the application to be compatible with both Android and iOS platforms, expanding its accessibility to a broader user base.
10. Outcome: The Location-Based Relaxation and Entertainment Recommendation App garnered enthusiastic reviews from users who appreciated its ability to curate personalized leisure experiences. It facilitated users' discovery of new places and significantly enhanced their relaxation and entertainment choices.

This project exemplifies my expertise in mobile app development, geospatial technology integration, and user-centric design. It underscores my proficiency in transforming innovative concepts into practical solutions that improve the quality of users' leisure time.

Project: Comprehensive Authentication Plug-in with OAuth Integration
Date: 04/2023 - 05/2023
Description:

I spearheaded the development of a robust authentication plug-in that offered users a seamless and secure registration and sign-in process. This project prioritized user convenience by providing multiple authentication options, including email and password, GitHub OAuth, and Google OAuth. It also incorporated features such as password reset and login link delivery via email to enhance the user experience.

Key Achievements and Responsibilities:

1. Multi-Authentication Options: Designed a comprehensive registration and sign-in page that catered to diverse user preferences. Users had the flexibility to choose between traditional email and password authentication or the convenience of GitHub and Google OAuth authentication.
2. OAuth Integration: Integrated GitHub and Google OAuth authentication methods to simplify the registration and login process, enabling users to access the platform with their existing accounts on these platforms.
3. Password Reset Functionality: Implemented a user-friendly password reset feature, allowing users to regain access to their accounts in the event of a forgotten password. This included a secure verification process.

4. Login Link via Email: Developed a secure mechanism for sending login links to users' registered email addresses, enabling quick and secure access to their accounts without the need to remember or reset passwords.
5. Data Privacy and Security: Prioritized user data privacy and security by implementing industry-standard encryption and authentication protocols, ensuring that sensitive information was protected.
6. User-Friendly Interface: Designed an intuitive and user-friendly interface that streamlined the registration and sign-in process, making it accessible to users of all technical backgrounds.
7. Feedback and Support: Incorporated mechanisms for users to seek assistance or provide feedback on the authentication process, ensuring a responsive and user-centric experience.

Outcome:

The Comprehensive Authentication Plug-in with OAuth Integration significantly improved the user on boarding experience by offering a range of authentication options and user-friendly features. Users appreciated the convenience of accessing the platform using their preferred authentication method, whether it be email and password, GitHub, or Google.

This project exemplified my dedication to creating secure and user-centric solutions that prioritize ease of use while maintaining robust data privacy and security standards. It underscored my ability to develop applications that enhance user convenience and accessibility, ultimately contributing to a positive user experience.

Real-Time Chat Application with Content Moderation
Date: 03/2023 - 03/2023
Description:

I developed a dynamic real-time chat application using Django that not only facilitated seamless communication but also prioritized user safety and content moderation. This innovative chat platform aimed to create a welcoming and respectful online environment by implementing a sophisticated system to detect and filter out vulgar or inappropriate language within the chat.

Key Achievements and Responsibilities:

1. Feature-Rich Chat Functionality: Engineered a feature-rich chat interface that allowed users to engage in real-time conversations, supporting text messages, emojis, and multimedia sharing.
2. Vulgar Language Detection: Implemented an advanced algorithm and natural language processing techniques to detect vulgar language and offensive content in real-time messages.
3. Content Filtering: Developed a content filtering system that automatically flagged or censored inappropriate content, ensuring a respectful and safe chat environment for users of all ages.

4. User-Friendly Interface: Designed an intuitive and user-friendly interface that promoted ease of use, encouraging active engagement within the platform.
5. Customization Options: Empowered users with the ability to customize their content filtering preferences, giving them control over the level of moderation they preferred.
6. Real-Time Updates: Ensured that content moderation updates were applied in real-time, allowing for immediate action when inappropriate language was detected.
7. Data Privacy and Security: Prioritized user data privacy and security by implementing robust encryption and data protection measures.
8. Feedback Mechanism: Incorporated a feedback mechanism that allowed users to report any false positives or provide feedback on the content moderation system, ensuring continuous improvement.

Outcome:

The Real-Time Chat Application with Content Moderation received positive feedback from users who appreciated the safe and respectful communication environment it provided. It not only facilitated seamless and engaging conversations but also ensured that users could interact without exposure to offensive content. This project showcased my ability to create user-centric applications that prioritize user safety and well-being while promoting active communication.

This project represents my commitment to developing applications that not only serve their functional purpose but also contribute positively to online communities by fostering respectful and responsible communication.

SKILLS & INTERESTS

- Creative Problem Solving
- Project Management
- Content creator or Streamer
- Mentoring
- Part-time IT blogger