Doeun Kwon

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Education

The University of British Columbia
Sep 2020 - Apr 2024
Bachelor of Science in Mathematics
Topics: linear algebra, machine learning, algorithms, mathematical modelling, international finance

Experience

Later
May - Aug 2023
iOS Developer Intern
- Utilized **SwiftUI** and integrated design patterns like **delegates**, **protocols**, and **Swift Combine** to refine UX flows and improve app navigation and interaction.
- Worked closely with the backend API team, employing **Charles Proxy** and optimizing real-time synchronization methods to enhance app responsiveness and data integrity.
- Addressed software bugs proactively and engaged in detailed code reviews, emphasizing iterative improvement and bolstering app stability.
- Collaborated with the design team, applying **UIKit** to convert mockups into responsive app layouts, maintaining design consistency, and aligning with the product's vision and user needs.

Later
May - Aug 2022
iOS Developer Intern
- Employed **Swift Storyboards** to develop a **GDPR-compliant** sign-up page, focusing on user data security and compliance with industry standards.
- Enhanced the iOS app by reintroducing the **Linkin.bio** feature, boosting user engagement and offering mobile experience flexibility.
- Collaborated effectively with the backend API team, utilizing **Postman API** for precise data synchronization and connection optimization.
- Addressed app discrepancies and promoted adherence to best practices through insightful, reciprocal code reviews.

Projects

Layers
May 2023 - Present
Mobile Developer, UI/UX Designer
- Developing a wardrobe management app that digitizes clothing items, organizes digital closets, enables outfit planning, and fosters a style enthusiast community, using **TypeScript** and **React Native** for an intuitive and aesthetically pleasing interface.
- Led the design of user experience flow, UI elements, and logo through **Figma**, enhancing the app's visual appeal and functionality.
- Applied various **React hooks**, such as **useState**, **useContext**, **useEffect**, **useCallback**, **useMemo**, and **useRef**, and established comprehensive navigation with **Stack Navigator**, optimizing component efficiency and lifecycle management.
- Implemented type checking and enabled dynamic UI through full CRUD operations for seamless backend integration.

Bounce
Oct - Dec 2022
iOS Developer
- Developed a day randomizing app in **Swift**, utilizing **UIKit** and implementing the **MVC pattern**, generating personalized itineraries with a **linear-time algorithm** based on user input.
- Integrated **CoreData** and **CoreLocation**, and called APIs from **OpenWeatherMap** to enhance personalization and provide local weather information, enriching the user experience.
- Designed and optimized UI using **Figma**, ensuring compatibility and responsiveness across all iPhone models.

Skills

Languages: Swift, TypeScript, JavaScript, Python, C++, Java, SQL, MATLAB
Frameworks and Libraries: SwiftUI, UIKit, React Native, React.js, Pandas, SciPy, NumPy