

Lydia Clarke

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### Thesis Abstract

This project is going to explore how user experience design ties into computer science. Over the course of the summer, through IBM's patterns internship, the techniques and skills taught will be implemented into this project. The project will focus on the importance of front-end design, and the role it plays in computer and mobile applications. Through user research, the interface will be designed based off of user preference in order to be user-friendly and easy to understand. It will also include back-end development of a mobile or computer application. Using Java, a mobile app for android will be developed implementing coding learned from school and interface design learned at IBM. The programming will rely heavily on the interface prototypes created in the design process. The prototypes will specify the structure within the app, and map out the user's journey when using the application. Additional research will be centered on how front-end design plays a role in the development and programming of the application.