

Here are the details for my capstone project:

Title -- Tella for iOS: Encryption Using Swift

Abstract -- Tella is an open-source application developed by Horizontal to help users hide sensitive files in oppressive environments. This capstone focused on using Swift cryptography to keep users' data secure. Unencrypted data needed to never be saved to storage and, for user convenience, the password needed to be easily changeable. The developed system uses two layers of encryption to leverage the secure enclave and make changing authentication methods convenient for the user and computationally inexpensive. The user is able to authenticate using biometrics, a passcode, or a password of their choosing. Faculty-Sponsor -- Ugur Cetintemel

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