

ZACKERY MERTZ

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Education

- ***B.S. in Computer Science*** Sept. 2016 - Dec. 2022
Brigham Young University
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Experience

- ***Lab Researcher - BYU CS Security Lab*** Aug. 2022 - Dec. 2022
 - Performed research on malicious messages sent using WhatsApp
 - Studied WhatsApp source code to determine how these attacks are performed
 - Used Python to work on an extension that decrypts the messages
 - Reported my work to other researchers in stand-ups
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Projects

- **Personal Website** | *React, Tailwind CSS* | <https://zackmertzportfolio.netlify.app/>
 - Check out my personal website I created for more info on my work
- **Family Map Android App** | *Java, SQLite, Google Maps API*
 - A full-stack Android app that generates a user's family and displays it on a world map
 - Backend integrated using DB Browser
- **Twitter Clone** | *Java, AWS - Lambda, DynamoDB, SQS*
 - Starting in an established codebase of a simpler version of Twitter, added features and refactored code to better adhere to software engineering principles
 - Uses Amazon's AWS Lambda to link APIs for each feature of the app
 - Uses DynamoDB to create and manage a non-relational database
 - Uses SQS to post statuses to make the app scale to over 20,000 users
- **Knight's Code** | *React, Typescript* | <https://knightscode.natehroycastle.com/#/home/register>
 - A web application to teach beginners how to code
 - Startup project with hundreds of potential customer interviews and survey responses to guide the direction of development
 - Has multiple units including variables, loops, and functions for new learners