ZACKERY MERTZ

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Education

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

Experience

- ***Lab Researcher - BYU CS Security Lab*** .... Aug. 2022 - Dec. 2022
  - Performed research on end-to-end encryption
  - Studied code to find public/private key pairs and how they are encrypted
  - Used Python to work on code that encrypts and decrypts messages
  - Reported my work to other researchers in stand-ups

Projects

- **Personal Website** | *React, Tailwind CSS* | *https://zackmertzportfolio.netlify.app/*
  - Check out my personal website that 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*
  - A clone of Twitter that with 14 social media features
  - Uses Amazon's AWS Lambda to link APIs for each feature of the app
  - Uses DynamoDB to create and manage a non-relational database
  - Utilizes SQS to post statuses to make the app scale to over 20,000 users
  - Uses a serverless event-driven architecture
- **Knight's Code** | *React, Typescript* | *https://knightscode.natehroylance.com/#/home/register*
  - A web application that teaches beginners how to code
  - Startup project with over 50 customer interviews and 200 feedback responses received to guide the direction of development
  - Has multiple units including variables, loops, and functions for new learners