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ZACKERY MERTZ

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EDUCATION

Provo, UT	Brigham Young University	Aug. 2016 – Dec. 2022
<ul style="list-style-type: none">• B.S. in Computer Science, December 2022• Undergraduate Coursework: Algorithms, Computational Theory, Software Engineering, Software Business, Computer Security, UI/UX Design, Web Design, Artificial Intelligence.		

EMPLOYMENT

Lab Researcher	BYU Internet Security Lab	Aug. 2022 – Dec. 2022
<ul style="list-style-type: none">• Performed research on end-to-end encryption.• Studied codebase of over 30,000 lines to locate public/private keypairs and how they are encrypted.• Used Python to work on code that encrypts and decrypts messages.• Reported work to other researchers in stand-ups.		
Setter Verification	Blue Raven Solar	Aug. 2020 - Jan. 2023
<ul style="list-style-type: none">• Verify customer qualifying information such as credit and income.• Communicate with management across the country to assist in scheduling consultations.		
Office Associate	R.C. Willey	Dec. 2018 - Apr. 2020
<ul style="list-style-type: none">• Provided customer service and performed transactions with high volumes of cash.• Reconciled cash drawer at the start and end of each shift.• Worked as phone operator, providing information and assistance to customers.		

PROJECTS

Personal Website | React, Tailwind CSS | <https://zackmertzportfolio.netlify.app/>

- Check out my personal website I created for more info on my work.

Knights 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.

Twitter Clone | Java, AWS - Lambda, DynamoDB, SQS

- A clone of Twitter with 14 social media features.
- Uses Amazon's AWS Lambda to link APIs for each feature of the app.
- Data stored and managed in DynamoDB, Amazon's non-relational database.
- Utilizes SQS to post statuses and allow the app to scale to over 20,000 users.
- Uses serverless event-driven architecture.

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.
- Generates random names and events from a JSON file library.
- Backend integrated using DB Browser; frontend created with Android Studio Code.

Languages and Technologies

- Java; Python; C++; C; SQL; JavaScript; HTML; CSS; React;
- Visual Studio; AWS; Android Studio; IntelliJ