

608 Gregory Ct.  
Roseville CA 95661

## ZACKERY MERTZ

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### EDUCATION

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

### EMPLOYMENT

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<b>Software Developer</b>	<b>CE Showroom</b>	<b>Mar. 2023 - Current</b>
<ul style="list-style-type: none"><li>• Worked as part of the developer team to build products, maintain databases, and test code.</li><li>• Became proficient with technologies such as Microsoft SQL Server, Jira, and ChatGPT.</li><li>• Worked as the main developer on a project that delivered a Python solution that improves product titles, descriptions, and categories from our database by using the new ChatGPT 4.0 API on 20,000+ products.</li><li>• Collaborated with team members often to brainstorm ideas, come up with solutions, and receive/give constructive criticism on code.</li></ul>		

<b>Lab Researcher</b>	<b>BYU Internet Security Lab</b>	<b>Aug. 2022 – Dec. 2022</b>
<ul style="list-style-type: none"><li>• Performed research on end-to-end encryption.</li><li>• Studied codebase of over 30,000 lines to locate public/private keypairs and study how they are encrypted.</li><li>• Used Python to work on code that encrypts and decrypts messages.</li><li>• Reported work to other researchers in stand-ups.</li></ul>		

<b>Setter Verification</b>	<b>Blue Raven Solar</b>	<b>Aug. 2020 - Jan. 2023</b>
<ul style="list-style-type: none"><li>• Verify customer qualifying information such as credit and income.</li><li>• Communicate with management across the country to assist in scheduling consultations.</li><li>• Assisted in training new team members on the operations and duties of our department.</li></ul>		

### PERSONAL PROJECTS

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#### **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.

### **Languages and Technologies**

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- Java; Python; C++; C; SQL; JavaScript; HTML; CSS; React;
- PyCharm; Microsoft SMS; ChatGPT API; Visual Studio; AWS; Android Studio; IntelliJ;