MADISON KRIEGE

CONTACT

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EDUCATION

TEXAS TECH UNIVERSITY
Creative Component: *Machine Learning Roles: Designing a Smart Report Card*
Masters of Software Engineering
2021-2023

IOWA STATE UNIVERSITY
Bachelor of Computer Engineering
2016-2020

SKILLS

- → Javascript - Angular, React, Vue
- → Web Development - HTML, CSS (Tailwind, Bootstrap)
- → Database - PostgreSQL, MySQL
- → Mobile Development - Android, Swift
- → Amazon Web Services - Lambda, DynamoDB, S3, EC2,
- → Elastic Container Registry, Redshift, API Gateway, Cognito Object Oriented - Java, C++

VOLUNTEERING

CO-TREASURER
Iowa City Robotics (2020 - Present)

COACH, JUDGE ADVISOR
FIRST Robotics (2015- Present)

WORK EXPERIENCE

SOFTWARE DEVELOPER
Pearson (2017-Present)

- Leverage AWS resources to create and maintain a platform as a service
- Breakdown educational data to develop static ESSA-driven report card websites for states
- Construct web-based applications for school assessment reporting
- Create and maintain product documentation to aid in consumer usability and ease of use

CORNELL COLLEGE
Adjunct Lecturer (2023-2024)

- Lead remote lectures in introductory software concepts
- Create lecture materials and in-class exercises for mobile development coursework
- Travel to sister university in Jilin City, China to teach a partial block course

STUDENT ROLE MODEL
Program for Women in Science and Engineering (2016-2020)

- Introduce K-12 students, over 5,000 thus far, to STEM via hands-on experiments and workshops
- Debunk common barriers and create an open space for students to ask questions
- Connect young women and engineering concepts through individual peer mentorship

TEACHING ASSISTANCE
ISU DEPT OF ELECTRICAL AND COMPUTER ENG. (2019-2020)

- Evaluate student performance on required materials using positive reinforcement techniques
- Magnify student learning through individualized office hours and assessment feedback

SOFTWARE DEVELOPMENT INTERN
Buildertrend (2019)

- Convert and modernize the 13-year old Buildertrend web platform into React JS
- Help the QA and Code Health teams in product debugging and unit testing using SOLID principles
- Interpret data patterns and identify thresholds for successful customers alongside full-time Data Science team