MARK BUTTENHOFF

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TECHNICAL SKILLS AND QUALIFICATIONS

- **Software development** - Experience in developing and testing applications using Javascript, Python, SQL, C#, C++, Lua, HTML, CSS and Object-Oriented design principles. Other skills include implementation, testing, debugging, and deploying software in Windows and Linux environments.
- **Software testing** - Experience testing applications using unit testing frameworks.
- **Database** - Experience using relational databases. Familiar with relation models and capable of designing and implementing SQL statements to query and perform CRUD operations. Experience managing databases using Microsoft SQL Server.
- **Problem-solving skills** - Experience in problem solving by analyzing, debugging, and troubleshooting applications and integration components. Familiar with using software debuggers for Python, C/C++, and CSharp.
- **Communication Skills** - Able to clearly communicate with team members and other teams to gather requirements, implement and test applications, and test applications integration. Experience using Microsoft Teams to communicate with team members remotely.

PROFESSIONAL EXPERIENCE

Interstates Control Systems - Software Developer; Sioux Falls, SD   *May 2019 – September 2021*

- Developed and implemented software for Cargill Animal Nutrition, automating steps in the animal feed production process
  - This software automated the process of entering data into factory equipment, which in result reduced errors caused by manual input.
  - Developed reports for each production to allow factory managers to analyze and improve their ingredient measurement process.
- In charge of fixing system bugs and adding features to existing software to improve performance and user experience
  - Improved speed of internal truck loadout software by 50% by optimizing database calls, reducing operator wait-time by several minutes daily.

Sanford Health – IT Intern; Sioux Falls, SD   *May 2018 – August 2018*

- Joined the IT team and supported people by installing phones and server equipment for a hospital IT system. Provided support and troubleshooting for server and phone issues, and wrote documentation for common issues to reduce IT workload.

EDUCATION

South Dakota School of Mines and Technology | Bachelor of Computer Science | Rapid City, SD | May 2019

- **Major courses included**: Programming Languages, Analysis of Algorithms, Data Structures, Database Management Systems, Software Engineering, Mobile Development, Digital Image Processing, GUI Programming, Computer Organization and Architecture, Cybersecurity, Networking, Operating Systems
- **Other courses included**: Statistics, Calculus, Biology, Chemistry, Physics, Geology, Cognitive Psychology
- **Received Student Leadership Award**: organized club events and meetings for the Linux User Group, and Astronomy Club, boosted club membership and funding by 30%

PROJECTS

Virtual Reality Paramedic Simulator

https://www.kotatv.com/content/news/South-Dakota-School-of-Mines-and-Technology-hosts-Senior-Design-Science-Fair--480052463.html

- **Senior Design project:** Developed virtual reality simulation tool for paramedic students. Designed/developed the user interface, added unit testing to the codebase, and tested the hardware (Android VR headset). Assisted in demonstrating the project to a class of paramedic students to get feedback on design.

ADDITIONAL SKILLS

Programming Languages: Javascript, Typescript, Python, SQL, C#, C++, Java, Lua, HTML, CSS

OS & Software: Linux, Windows, Git, Visual Studio, NodeJS