Mark Buttenhoff

Software Engineer   **Sioux Falls, South Dakota**

🌐 mbhoff.com ✉ mbhoff@pm.me 📞 (605) · 201 · 8640 🅢 mbhoffdev

Skills

Computer Languages	Javascript, Python, SQL, C#, C++, Java, Lua, HTML, CSS
OS & Tools	Linux, Windows, Android, Git, Visual Studio, NodeJS, Unity, OpenGL

Education

South Dakota School of Mines and Technology   **December 2018**
B.S. in Computer Science

Work Experience

Software Developer, Interstates Control Systems   **May 2019 - Current**

· Wrote software for multiple factories specializing in animal feed production. This software automated the process of importing recipe ingredient data to factory equipment, and reduced errors caused by manual input. The software also exported useful information for each production to allow the factory managers to analyze and improve their processes.

IT Intern, Sanford Health   **June 2018 - August 2018**

· Installed and configured IP phones and server equipment for the hospital paging system. Wrote troubleshooting documentation for the hospital phone system, and planned a website for ordering phone equipment online.

Projects

Virtual Reality Paramedic Simulator - C#

· Virtual reality simulation tool for paramedic students developed for Google Daydream, Google Cardboard and desktop systems. Developed by a team of four, my responsibilities included displaying medical information to the user interface, and automated testing.

Image Editor - Lua

· Desktop image processing program. Features included ability to modify image contrast, brightness, equalization, and perform effects such as posterization, pseudocolor, edge detection, and automated thresholding.

Risk Strategy Game - Java/Android

· Two player Risk style strategy game for Android. Developed by a team of three, my responsibilities included writing code to initialize the game state, handling touch screen input, and drawing the gameboard to the screen.

Courses

- **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**

Leadership

- **SDSMT Association for Computing Machinery, Vice President**
- **SDSMT Software Engineering Course, Dev Ops Team Lead**
- **SDSMT Students for the Exploration and Development of Space, Chair**