

Mark Buttenhoff

Software Engineer Sioux Falls, South Dakota

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

Skills

Programming Languages C++, C#, Java, Javascript, Python, SQL, Lua
OS & Tools Linux, Windows, Android, Git, Visual Studio, Emacs/Vim, Unity, OpenGL

Education

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

Internships

Sanford Health June 2018 - August 2018

- Created Sharepoint troubleshooting articles for the hospital phone system, and planned a system for ordering phone equipment online. Installed and configured IP phones and server equipment for the hospital paging system.

Projects

ESTAR - Virtual Reality Paramedic Simulation Tool - C#

- Virtual reality simulation tool for paramedic students developed for Google Daydream, Google Cardboard and desktop systems.

Image Editor - Lua

- Image processing program with image contrast, gamma, brightness, posterization, pseudocolor, equalization, edge detection, and automated thresholding features.

Risk Strategy Game - Java/Android

- Two player Risk style strategy game for Android.

GUI program - Java

- Interactive graphical desktop program to display a map and information for a paleontology site.

Shortest Path Finder - C++

- Implementation of the A*star search algorithm to find the shortest path between two players for a game.

Ad Blocker Browser Extension - Javascript

- Ad blocker extension for Chrome that removes ad images and scripts from websites.

Courses

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| • Programming Languages | • Software Engineering | • Computer Organization and Architecture |
| • Analysis of Algorithms | • Mobile Development | • Cybersecurity |
| • Data Structures | • Digital Image Processing | • Networking |
| • Database Management Systems | • GUI Programming | • 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