Brody Clark

brodyclark97@gmail.com | (717) 497-9349 | Mechanicsburg, Pennsylvania

SUMMARY

I am a software engineer with 4 years of experience in C++, C#, and Unreal Engine. I am seeking full-time employment in software development with an interest in immersive technologies.

WORK EXPERIENCE

General Motors   **March 2021 - Present**
Software Developer (AR/VR)   *Warren,MI*

- Developed a high-performance multiplayer virtual reality automotive design app in Unreal Engine
- Created a single sign-on plugin for Unreal Engine to support multiple internal projects
- Lead development effort to improve and maintain a core business application for engineering data
- Improved development of legacy code by introducing unit testing and logging
- Developed custom solutions and tools to enhance development speed
- Reduced company license costs by rewriting internal market research application using Pandas library
- Recognized for taking initiative to improve legacy projects using modern automation tool and refactoring techniques
- Wrote automated build pipelines and coordinated deployments in Azure DevOps and Github
- Participated in team-wide code reviews and contributed to coding standards
- Attended regular sprints, standups, and retrospectives

PROJECTS

GIMP Plugins
https://github.com/Brody-Clark/gimp-tools.git

- Created a sprite sheet exporter and slicer tool in Python for GIMP image manipulation program

Runge-Kutta ODE Solver
https://github.com/Brody-Clark/rk4-ode-solver.git

- Developed a desktop application using wxWidgets that solves ordinary differential equations using RK4
- Utilized ExprTk library to allow users to enter differential equations as plain text
- Used matplotlibcpp to plot results

EDUCATION

The Pennsylvania State University   **August 2018 - May 2020**
Bachelor of Science (B.S.) – Aerospace Engineering   *State College, PA*

- 3.7 GPA
- Member of Tau Beta Pi Engineering Honors Society
- Member of Aerospace Academic Honors Society
- Olympic lifting club member

SKILLS

- **Languages**: C++, C#, Python, SQL, MATLAB
- **Frameworks/Libraries**: Unreal Engine, Unity, Pandas, numpy, wxWidgets, C++ STL, matplotlib, CppUnitTestFramework, GoogleTest, NUnit, Moq
- **Tools**: Git, Linux, Perforce, Visual Studio, CI/CD, Azure DevOps, Agile, Microsoft Access, Autodesk Alias