Joshua M. Peeples

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| **Portfolio** https://korecct.github.io/Portfolio/ | **Personal Email** – joshcullor1@gmail.com |
| **GitHub** – https://github.com/Korecct | **LinkedIn** - https://www.linkedin.com/in/joshua-peeples/ |

Summary

- College student with over 5 years of experience in programming, game development, and full-stack software development.
- Proficient in managing complex source code, documentation, and collaborative development using GitHub.
- Experienced in the Software Development Life Cycle (SDLC), including requirements gathering, design, implementation, testing, deployment, and maintenance.
- Skilled in Agile development methodologies, contributing to iterative and collaborative workflows, sprint planning, and delivering high-quality software solutions.
- Passionate about artificial intelligence, machine learning, and natural language processing.

Projects

MBTI Personality Type Chatbot

- Developed a chatbot that predicts users' MBTI personality types based on their text inputs.
- Built and trained a DistilBERT-based model using Python, PyTorch, and Hugging Face Transformers.
- Implemented data augmentation techniques, including synthetic data generation and NLP methods, to balance the dataset.
- Deployed the model via a Flask RESTful API for interactive user engagement.

Metal Defect Detection AI

- Created a deep learning model to detect metal surface defects using image classification techniques.
- Employed Python, PyTorch, ResNet18 architecture, and OpenCV for model development and image processing.
- Integrated the NEU Surface Defect Database from Kaggle for training and testing the model.
- Achieved high accuracy in classifying various types of metal surface defects.

ChessAI Web Application

- Built a full-stack web application for playing chess with AI opponents or other players online.
- Implemented full chess game logic adhering to official rules, including special moves like castling and En-passant.
- Developed backend using C# and ASP.NET Core MVC; frontend with HTML, CSS, and JavaScript.
- Integrated real-time multiplayer functionality using SignalR for communication and lobby management.

Relevant Skills

- **Programming Languages**: Java, C#, Python, Rust, JavaScript, HTML, CSS, Ada
- **Technologies**: ASP.NET Core MVC, Scikit-learn, Matplotlib, Numpy, Seaborn, Pandas, PyTorch, TensorFlow, OpenCV, Hugging Face Transformers, SignalR, Unity
- **Tools**: Git, GitHub, Visual Studio Code, Visual Studio 2022, IntelliJ IDEA, Microsoft Office Suite
- **Personal Skills**: Strong teamwork and communication, up-to-date with latest technologies, hardware assembly and troubleshooting

Education

Kennesaw State University
1000 Chastain Rd NW, Kennesaw, GA 30144
Graduation - 2025

- **Major**: Bachelor of Science in Computer Science
  - **Concentration**: Artificial Intelligence

Camden County High School
6300 Laurel Island Parkway, Kingsland, GA 31548
2016 - 2020

- **Focused Coursework**: AP Computer Science, Game Design
- **Extracurricular Activities**: Senior Beta Club, Swim Team, DECA

Licenses & Certificates

- **Unity Certified Associate**
  December 2019
- **NOCTI - Workforce Competency Credential**
  Exceeded national standards in Computer Programming - April 2019

- **MTA - Software Development Fundamentals**
  April 2019
- **Microsoft Office Specialist (Word, Excel, PowerPoint)**
  2016 - 2018