

Joshua M. Peeples

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Summary

- College graduate with over 5 years of personal experience in software development, computer management, and technology solutions, and is skilled in Agile development methodologies, contributing to iterative and collaborative workflows, sprint planning, and delivering high-quality software solutions.

Projects

ChessAI Web Application

- Lead a team as Lead Programmer to develop a web chess application with Player versus player and AI chess opponents.
 - 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.

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 AI 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.

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