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Matthew Peach

matthewpeach.me

Dedicated and detail oriented professional with a background in radiation protection technology, ready to use my technical expertise and analytical skills in a software development role. Seeking a challenging position where my commitment to excellence, problem-solving, and adaptability can contribute to a team. I'm eager to apply the skills I've learned working towards my newly acquired degree in software development and am ready to learn more.

Education

Bachelor of Applied Science, Software Development, Austin Community College   12 / 2023   GPA: 3.9

Projects

Personal Website   matthewpeach.me

Spring Boot, Java, AWS ECR/ECS, Machine Learning, Microservices, Javascript

- Used Spring Boot and Java to write code that serves a website and coordinates communication between microservices.
- Containerized Spring Boot and Flask applications with Docker, then deployed them on AWS ECS.
- Used Three.js to create a 3D environment on a web page. Also used Chart.js to show the results produced by machine learning models.

Convolutional Neural Network for Aerial Image Classification   github.com/CNN_Aerial_Images

Deep Learning, Transfer Learning, Computer Vision, Tensorflow, Model Deployment, Python

- Designed and trained a convolutional neural network using Tensorflow to classify aerial images by landscape.
- Deployed the model in a container using Flask, Docker, and AWS ECS.

NASA L'Space Academy   github.com/NASA-LSpace-Program-2022

Lead Scientist, Cross-disciplinary Communication, CAD Modeling, Unreal Engine 5, Python

- Served in a leadership role – responsibilities included instrumentation research, selecting mission objectives, and instrument budgeting.
- Used SiemensNX to model instruments for the rover, then uploaded the completed model to Unreal Engine to be used in scenes.

Skills

Languages:	Java, C++, Python, Javascript, Lisp/Racket
Libraries:	Sci-kit Learn, Pandas, Flask, Tensorflow, Three.js, Chart.js
Frameworks / Other:	Spring Boot, Vue.js, Docker, AWS ECR/ECS, SiemensNX

Work Experience

Radiation Protection Technician (Contractor)   09/2019 – 06 / 2021

Day & Zimmermann

- Performed radiological surveys to map dose rates and monitor contamination.
- Check equipment/personnel leaving the RCA (Radiological Controlled Area) for contamination.
- Monitor nuclear professionals performing work in radiation/contaminated areas.
- Maintain qualifications for Unescorted Nuclear Access.