James Green

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Education

Grand Canyon University   Expected May 2025
Bachelor of Science in Software Engineering   *Phoenix, AZ*
- **Relevant Coursework:** Data Structures and Algorithms, Linear Algebra, Databases, Software Engineering II, Object Oriented Programming

Experience

RDP Leadership Board
- Spearheaded the Research and Development Projects for Grand Canyon University's Technology Department, leading several teams of students through groundbreaking research and development initiatives, culminating in the successful deployment of advanced technological solutions.
- Conducted weekly stand-up meetings to actively monitor and guide team progress, assess current statuses, and strategize for upcoming week's objectives, ensuring continuous alignment and forward momentum.
- Proactively managed resource allocation, ensuring all groups were fully equipped with the essential tools and materials required for their research and development endeavors.

AI Club Group Leader
- Guided a diverse team of students with varying levels of programming expertise to successfully develop and implement an innovative AI model
- Strategically allocate tasks and manage workloads by assessing individual experience and motivation, ensuring optimal team performance and efficient project execution.

Energy Blockchain Consortium
Research and Development Project
- Collaborating with Energy Blockchain Consortium on a pioneering research project that leverages AI and Blockchain technologies identify and reduce carbon emissions on a large scale. This initiative focuses on utilizing AI for intelligent emission reduction analysis and Blockchain for secure and transparent recording, aiming to revolutionize environmental sustainability practices.

Projects

Quantum Hybrid Neural Network | *Jupyter Notebook, PyTorch, Qiskit*   (*In Progress*)
- Developed a classical Convolutional Neural Network-based image classifier, proficient in analyzing and categorizing images into one of ten distinct classes with an accuracy rate of approximately 90%
- Implementing Quantum Neural Network layer(s), as well as quantum optimizer functions, observing the effect on accuracy, training duration, and feature selection of the model.

Pima Precision Law AI | *BERT, spaCy, NumPy, Pandas, Matplotlib, BeautifulSoup4, Jupyter, PyTorch*   (*In Progress*)
- Pioneering an AI to revolutionize legal analysis by comparing judicial rulings with the letter of the law in Pima County, enhancing legal accuracy and efficiency while reducing bias.
- Engineering a data pipeline following the ETL process and architecting a model around CNN deep learning and NLP algorithms

E-commerce Website | *React.js, MySQL, SpringBoot, Flask, Postman*   (*In Progress*)
- Designed a health and fitness inspired E-commerce website, featuring a comprehensive product database, user login functionality, inventory management, an administrative interface, and an integrated cart/checkout process.

Technical Skills

Languages: Python, Java, C++, C, MATLAB
Technologies: Jupyter Notebook, PyTorch, Qiskit, TensorFlow, React.js, Django, Flask, Spring Boot, Bootstrap, Postman, JUnit
Concepts: SDLC, Agile Methodology, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Cloud Computing, Quantum Mechanics, Version Control
Tools: Jira, Teams, Slack, Git, GitHub, VS Code, Eclipse, PyCharm, Jupyter Notebook