

SKILLS

Programming Languages Python | Java | JavaScript | C++
Technologies Node | GitHub | Git | MongoDB | Express | Bootstrap | Maven | NestJS
Gradle | PyTorch | React.js | MySQL | Cloud/Linux

EXPERIENCE

Darkan Jan 2020 - Present
Software Developer Remote

- Contributed 800+ commits to 7 separate codebases in the MMORPG Runescape remake ecosystem
- Integrated 3 production ready websites first in Flask/Vanilla Javascript, then React/Node and finally Node Express
- Implemented over 300 hours of playable content, including quests, bosses & engine improvements, leading Darkan to become the 3rd most complete remake

Graduate Studies May 2022 - May 2023
Graduate Student / Part Time San Antonio, TX

- Published 5 research papers based on deep learning and computer networks
- Assisted several PhD researchers with their research by scrapping, gathering and cleaning data sets
- Authored a novel neural network solution to NLP adversarial attacks for text detectors using PyTorch
- Research earned a \$2,200 grant for publication

NOTABLE PROJECTS

Adversarial Deep Learning With Mutation Oct 2022 - April 2023
Primary Author San Antonio, TX

- Fine-tuned a RoBERTa model to classify editions made to machine generated text
- Originated a mini-framework for mutating any large JSON data set
- Won 1st place in a university wide research competition and was re-used in 3 research papers during graduate studies

NS3 SDN Network Emulation Jan 2022 - May 2022
Source Contributor San Antonio, TX

- Emulated a SDN network which uses Quic to encrypt network traffic
- Wrote a GUI interface with animations in C++ using NS3 Framework
- Compared network performance between SDN with and without Quic encryption, finding <10% negligible difference for traffic, despite payload

Darkan Websites Jan 2023 - Present
Full Stack Developer Remote

- Updated Java Spring web to use Node twice for increased performance and conversions
- Recreated the 2012 Runescape Website from Archive.org
- Integrated all Darkan microservices into the websites
- Developed a blog content manager in vanilla Javascript for website news postings
- Trained a new contributor to develop the HTML and CSS for Darkan.org

Darkan API May 2022 - Present
Full Stack Developer Remote

- Ported a Java Spring Boot API to NestJS in Node
- Created 14 POST/GET endpoints for the Darkan Public WebAPI to access a centralized database

EDUCATION

Masters of Science - Computer Science (Summa Cum Laude, GPA 4.00) Jan 2021 - May 2023
Texas A&M - San Antonio

Bachelor of Business - Information Systems (Magna Cum Laude, GPA 3.72) May 2017 - Dec 2020
Texas A&M - San Antonio