

Jesse Guerrero

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 github |  linkedin

SKILLS

Programming Languages Python | Java | JavaScript | C++
Technologies Google Cloud | MySQL | MongoDB | Node | React.js | Express | NestJS | PyTorch
BootStrap | Java JDK | Gradle | Maven | Git | GitHub

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

Jan 2021 - May 2023

Texas A&M - San Antonio

San Antonio, TX

Bachelor of Business - Information Systems

May 2017 - Dec 2020

Texas A&M - San Antonio

San Antonio, TX