Natan Vargas — Software Engineer

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Education

Bachelor's of Science, Computer Science — Sept 2018 – May 2020
California State University, Northridge — GPA: 3.6

Experience

nFlux Ai — Jan 2020 – Present
Software Engineer Intern — Los Angeles, California
- Worked on computer vision projects involving realtime live video
- Developed a module to process and feed live video streams frame by frame in realtime
- Developed Vue & Flask webapps and some Python & Golang microservices
- nFlux is a startup so I had to wear many hats; learned a lot about everything

NSF Data Science Program — June 2019 – May 2020
Undergraduate Student Research — Northridge, California
- Collaborated with Professors and other Students on data science research projects from various majors
- Completed a summer bootcamp covering modeling, cleaning, and deploying machine learning projects

Projects

Shin Megami Tensei IV Compendium — Jul 2020
github.com/nvarg/smt4-fusion — smt4-fusion.wl.r.appspot.com
- A Vue & Flask Webapp that provides information about a collectible monsters in a Pokemon-like game.
- Flask API serves the textures from the game cartridge and data available online.
- Using OpenCV images are cropped to the largest area contour to provide better framing.

Reddit Data Mining — Aug 2019 – Dec 2019
github.com/nvarg/RedditDataMining
- Conducted a Sentiment Analysis of 58 political subreddits
- Wrote a shell/jq script to download & clean data from reddit's API with Raspberry Pi and crontabs
- Used NLTK to clean text for classification

Chops — Aug 2019 – May 2020
- A web app to analyze Academics using GPT2 (Vue & Flask).
- Combined data scraped from Google Scholar, ResearchGate, and a University site.

LA City Transit – 100 Resilient Cities (Datajam 2019) — Oct 2019
github.com/nvarg/datajam — portfolium.com/entry/top-gnomes-resilient-los-angeles-transit
- Participated in a team-based competition.
- Earned Best Data Science and the Reproducible Research award.
- Used K-Means and multiple datasets to highlight regions with inconvenient access to public transits.

Technical Skills

- Python
- Golang
- C++
- Bash
- Docker
- Flask
- OpenCV
- NumPy
- scikit-learn
- jq & json
- Vue.js
- Git
- Agile
- Design Patterns
- Command Line
- TCP/UDP/HTTP

Awards

- DataJam 2019 Best Data Science Award
- DataJam 2019 Reproducable Research Award