

# Nicholas VanCise

(702) 601-4856

vancise@unlv.nevada.edu

nicholas-vancise.glitch.me

github.com/thenick775

## PROFESSIONAL EXPERIENCE

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### Power Fusion Media

January 2021 - Present

#### Lead Software Developer

- Develops, architects, and maintains business critical and internal software
- Responsible for full stack development, emphasis on back end technologies
- Develops scalable processes for large data flows, including data analysis, visualization, and automation
- Manages remote contractors, including requirements, code reviews, and deployment
- Manages and maintains database infrastructure, including performance optimizations, and reports generation

### Terbine - The Global Exchange for IoT Data

Contractor, November 2018 - January 2021

#### Data Linker

- Develops and links real time data feeds into the continuous ingestion system
- Develops and maintains back-end infrastructure for scalable distributed data ingestion and processing, including database infrastructure
- Develops data visualizations based on archival and continuous data feeds
- Enables handling of exotic file types, file manipulation, and large static data files

#### Data Searcher

- Responsible for exploration of new IoT data sources and feeds to be ingested into the system
- Ensures individual feeds adhere to the Metadata Specifications, and that all ancillary information is reviewed

### Academic Success Center, UNLV

Summers of 2017, 2018, 2019

#### Team Lead

- Managed planning and presentation of lectures, bookkeeping, and dynamic of the ALEKS program
- Developed individual lesson plans based on statistical assessment of student performance
- Prepared and proctored ALEKS placement exam

## INDUSTRY PROJECTS

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### Ingestion API

The Ingestion API is designed to function as the middle man between independent programs orchestrated by Apache Airflow that collect data, and multiple postgres database connections. This API was built with Golang.

### Airflow Ingestion Cluster

The Airflow Ingestion Cluster is designed to fetch and process data from a multitude of public data sources using docker based web scrapers, where this data is sent to the Ingestion API for storage. This cluster was built with Apache Airflow and Docker, where the web scrapers were built using Python, Golang, and Bash.

### Ingestion Index Crawler

This crawler is designed to reduce search times of already ingested data. It crawls all instances for a specified user, and produces a list that can be easily and quickly searched. This software was built using Docker and Selenium in Python.

### IoT Data Visualizations

[github.com/thenick775/terbine\\_visualizations](https://github.com/thenick775/terbine_visualizations)

These projects are an interactive way to view and analyze data from a multitude of physical sensors located around the world. The individual visualizations were constructed using Javascript, Jupyter-Notebooks, D3, Kepler.gl, and Leaflet, where they are currently featured on the main Terbine website.

## PUBLIC PROJECTS

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### Quorum iOS Transpilation

[github.com/thenick775/Quorum\\_iOS\\_Transpilation](https://github.com/thenick775/Quorum_iOS_Transpilation)

This project was the culmination of my senior design, where RoboVM was re-integrated into the Quorum development toolchain, allowing Quorum to run on iOS devices. This feature was taken from development to beta testing, where the

architecture and code modifications used here were integrated into Quorum Studio's source under the "Send to iOS" button, automating the process. This integration allowed Quorum to extend its reach into a market where it is needed the most, and is now included in the official Quorum Studio 3.0 and Quorum 9.0 release!

### **Metroidvania**

*github.com/thenick775/metroidvaniafangame*

This project is a small game written in Objective-C that utilizes features from Spritekit, GameplayKit, AVAudioPlayer, and JSTileMap. I have written all of the event driven animation scheme, collision detection, character physics, data storage schemes, and game logic.

### **Terbine Map Visualization**

*github.com/thenick775/Terbine-Map*

This was a fun exercise in data visualization, where fixed coordinate data points in Terbine were plotted and connected on an interactive world map. The data mining was done using Selenium in Python, and data visualization was accomplished using Mapbox in R.

## **EDUCATION**

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Bachelor of Science, Computer Science  
University of Nevada Las Vegas

*Class of Dec 2020*  
*GPA: 3.79*

## **RELEVANT SKILLS**

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**Languages:** Golang, Python, Bash, Objective-C, C, Java, Matlab, R, Javascript

**Related Technologies:** Docker, Amazon Web Services (AWS), Apache Airflow, Django, Nginx, Selenium, D3, Git, PostgreSQL, MySQL, MariaDB