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PROFESSIONAL EXPERIENCE

Travel Syndication Technology

August 2024 - Present

Senior Software Engineer

- Develops and maintains scalable cruise shopping, search, and aggregation services for AAA clubs and consumers
- Responsible for data ingestion, bookings, promotion management, and front-end flows from search to checkout
- Responsible for full-stack development with an emphasis on React and Scala in a distributed microservice architecture

Nav Technologies, Inc.

August 2022 - August 2024

Senior Software Engineer

- Develops and maintains financial services supporting small business owners in a distributed microservice architecture
- Responsible for recommendation and marketplaces services, partner integrations, and support of critical sales flows
- Responsible for full stack development with an emphasis on React, Golang and Elixir

Systems & Software

July 2021 - August 2022

Full Stack Software Engineer/Support Analyst

- Develops and maintains business critical software for water, gas, and electric utilities
- Responsible for full stack development and customer support, including customer specific projects
- Develops and maintains central billing related software, supporting both back and front-end processes

Power Fusion Media

January 2021 - July 2021

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 deployments
- Manages and maintains database infrastructure, including performance optimizations, and report generation

Terbine - The Global Exchange for IoT Data

Contractor, November 2018 - January 2021

Software Developer

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

INDUSTRY PROJECTS

Nav Marketplace

The Nav Marketplace is a platform where users are matched with loans, credit cards, business services, and other funding opportunities tailored to their business needs. I specialized in both back-end and front-end development, focusing on recommendation algorithms, CMS services, product life cycle flows, and business profile generation using Elixir, Golang, and React. I played a key role in redesigning and rebuilding the marketplace front-end, delivering a more user-friendly and modern design driven by analytics generated from life cycle statistics and front-end metrics.

enQuesta Application

The enQuesta application is a cloud-based CIS solution for utilities covering customer billing, device management, customer engagement, and much more. My expertise centered around Cobol and Java development of central billing services, as well as bill print and front-end web page design and support. I also targeted improvement of infrastructure level code in C and Perl during my time at Systems & Software to further enhance compile times and run-time reliability.

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. This data is then sent to the Terbine Ingestion API for storage. This cluster was built with Apache Airflow and Docker, where the web scrapers were built using Python, Golang, and Bash, and the Ingestion API was built with Golang.

IoT Data Visualizations

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 using data sourced from within Terbine. Individual visualizations were constructed using JavaScript, Jupyter-Notebooks, D3, Kepler.gl, and Leaflet. These visualizations were previously featured on the main Terbine website.

PUBLIC PROJECTS

GbaJs3 - A Browser Based Game Boy Advance

github.com/thenick775/gbajs3

This was a fun exercise in browser-agnostic GBA emulation. My goal was to make a Gameboy Advance emulator available on iOS, bypassing some of the emulation problems on this platform. This was built on top of gbajs, offering several feature upgrades such as PWA support, as well as a modern UI. Currently, this project is built entirely in Typescript, React, and utilizes Golang-based back-end services.

Quorum iOS Transpilation

github.com/thenick775/Quorum_iOS_Transpilation

This project was the culmination of my senior design, where RoboVM was reintegrated 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 schemes, collision detection, character physics, data storage schemes, and game logic.

TheList Utility

github.com/thenick775/thelist

This cross platform project is an app used to make fast, searchable, in memory sets of lists. I built this as I had a need for searching lists by regular expressions and found no utility already serving this purpose. Fyne was used for the application display and packaging, and this project is featured in the Fyne Application Showcase.

EDUCATION

Bachelor of Science, Computer Science
University of Nevada Las Vegas
Honors:

Class of Dec 2020
GPA: 3.79
Cum Laude

RELEVANT SKILLS

Languages: Go, Elixir, Typescript, Scala, JavaScript, C, Java, Python, Cobol

Related Technologies: Docker, Kubernetes, Amazon Web Services (AWS), React, Apache Airflow, Django, Nginx, D3, PostgreSQL, MySQL