Tu Nguyen

Software Engineer

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Experience

Software Engineer - Remote   **Boston, MA**
Perch   *June 2021 - Present*
- Reduce order to ship days by 50% consolidating end-to-end processes resulting in streamlined written communication and operational flow among three departments with automation, cutting down average days holding inventory freeing up 11M in working capital.
- Collaborate with ads and data-platform teams to research, design, develop and optimize ads bid logic, correcting problematic attributed ad sale estimates by 15% to ensure effective use of ad spending.
- Increase page performance and reduce processing time by implementing pagination and streamlining code, resulting in north of 60% improvement in efficiency.
- Write maintainable, extensible and efficient code, utilizing strong unit test, troubleshooting, and debugging skills.
- Prototype new capabilities rapidly to confirm feasibility and potential value.

CAO Systems Specialist   **Quincy, MA**
ADUSA Procurement   *July 2018 - June 2021*
- Spearheaded the design, development, and implementation of a mass inventory update system resulting in elimination of manual entries per load, saving up to 8,000 to 15,000 working hours per week.
- Managed and maintained centralized SQL Server and Oracle Database for ordering, inventory, and forecasting systems for over 750 stores across three major supermarket brands.
- Collaborated with IT leadership to design, develop, test, implement, and improve data & quality control of the data processing infrastructure for efficient ingestion.

Skills

- **Programming Languages:** Python, Bash Scripting, Java, JavaScript (TypeScript, AJAX), PHP, C, C++
- **Framework:** Django, Flask, FastAPI, GraphQL, React, VueJs, NodeJs, HTML5, CSS3, Bootstrap
- **Databases:** Relational Databases (SQL, PostgreSQL, MySQL), Snowflake, Redis, Oracle
- **Other Tools and Technology:** Git, Unix/Linux, CI/CD, Docker, Cloud deployment (AWS, Heroku), Qt Creator, Jira, Pandas, MatPlotlib, Jupyter Notebook, ETL, Data science pipeline (cleansing, wrangling, visualization)

Projects

Discord | Twitch Bot
github.com/tu-nguyen/burrito-bot
- Written in TypeScript and NodeJS, deployed on an AWS EC2 (Elastic Compute Cloud) server instance.
- Utilized Discord.js to communicate with Discord's API, and tmi.js to communicate with Twitch's API.

Analytical Exploration of Boston Crime Statistics
github.com/tu-nguyen/analytical-exploration-of-Boston-crime-statistics
- Written in Python using Jupyter Notebook, with numpy, pandas and matplotlib, parsing over 268000 rows of data.
- An exploratory data analysis (EDA) and visualization of crime statistics in Boston within a duration of three years.

Multi Weather Android application
github.com/tu-nguyen/multiWeather
- Collects location, and parses JSON data from four weather APIs to aggregates, features autocomplete function using Google Place API.
- Led a team of four in the planning, design, and coding phase of development.

Education

Bachelor of Science in Computer Science   **Boston, MA**
University of Massachusetts Boston