Tu Nguyen

Software Engineer

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Skills

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

Professional Experience

Software Engineer   **June 2021 - Present**
Perch | Boston, MA

- Collaborate with ads and data team 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.
- Reduce order to ship days by 50% consolidating end-to-end processes; streamline written communication and operational flow among 3 departments with automation, cutting down average days holding inventory freeing up 11M in working capital.
- 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   **July 2018 - June 2021**
ADUSA Procurement | Quincy, MA

- 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.
- Worked closely in a cross-functional team to define technical strategies and roadmaps.

Projects

Discord | Twitch Bot (NodeJS)   **January 2021**
github.com/tu-nguyen/burrito-bot

- Written in TypeScript and NodeJS, previously deployed on an AWS EC2 (Elastic Compute Cloud) server instance.
- Utilized Discord.js to interact with Discord's API, and tmi.js to interact with Twitch's API.

Analytical Exploration of Boston Crime Statistics   **April 2018**
github.com/tu-nguyen/analytical-exploration-of-Boston-crime-statistics-2012-2015

- An exploratory data analysis (EDA) and visualization of crime statistics in Boston within a duration of three years.
- Written in Python using Jupyter Notebook, with numpy, pandas and matplotlib, parsing over 268000 rows of data.

Multi Weather (Android application)   **December 2017**
github.com/tu-nguyen/multiWeather

- Collects location data, 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   **May 2018**
University of Massachusetts Boston | Boston, MA