Tu Nguyen

Software Engineer

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Experience

Software Engineer - Remote   **Boston, MA**
Perch   *June 2021 - May 2024*
- Initiated and managed end-to-end automation processes, slashing order-to-ship days by 50% and liberating $11M in working capital through streamlined inventory management, bolstering operational efficiency enterprise-wide.
- Collaborated with cross-functional teams to research, design, and develop automation solutions, optimizing ad bid logic and improving ad sale estimates by 15% through strategic optimization.
- Prototyped new capabilities to assess feasibility and potential value, ensuring agile adaptation to evolving project requirements and ensuring optimal resource allocation.
- Improved page performance and processing efficiency by over 60% through strategic code optimization, seamless pagination implementation, and robust caching strategies.
- Developed and maintained code with a focus on maintainability and efficiency, bolstering end-user satisfaction by 20% through reliable, bug-free software experiences.

CAO Systems Specialist   **Quincy, MA**
ADUSA Procurement   *July 2018 - June 2021*
- Led the conceptualization, development, and deployment of a mass inventory update system, automating manual entries per load and achieving time savings equivalent to 8,000 to 15,000 working hours weekly.
- Monitored the administration and upkeep of a centralized SQL Server and Oracle Database supporting ordering, inventory, and forecasting systems for 750+ stores across three prominent supermarket brands.
- Participated closely with IT leadership to architect, build, validate, deploy, and refine data processing infrastructure, ensuring streamlined ingestion and robust quality control mechanisms.

Skills

- **Languages:** Python, Bash, SQL (PostgreSQL, MySQL), C, C++, Java, Kotlin, Javascript, HTML5, CSS3
- **Frameworks:** Django, Flask, GraphQL, RESTful API, JSON, React, VueJs, NodeJs, Bootstrap
- **Tools:** Git, Unix/Linux, AWS (DynamoDB, S3, EC2), Docker, Jira, CI/CD, ETL, Redis, PyCharm

Projects

Discord | Twitch Bot
github.com/tu-nguyen/burrito-bot
- Utilized modern web development technologies including TypeScript and Node.js to develop and deploy an application on an AWS EC2 server instance.
- Integrated Discord.js for efficient communication with Discord's API and tmi.js for efficient interaction with Twitch's API, enhancing user engagement and functionality.

Analytical Exploration of Boston Crime Statistics
github.com/tu-nguyen/analytical-exploration-of-Boston-crime-statistics
- Developed in Python using Jupyter Notebook, leveraging libraries such as NumPy, Pandas, and Matplotlib to conduct in-depth analysis on a dataset comprising over 268,000 rows.
- Analyzed three years of Boston crime data, revealing trends and patterns through thorough EDA and visualization.

Multi Weather Android application
github.com/tu-nguyen/multiWeather
- Utilized four weather APIs to collect and parse location-specific JSON data, while integrating a Google Places API for an efficient autocomplete feature.

Education

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