

Tu Nguyen

Software Engineer

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Experience

Python Software Engineer

Boston, MA

Perch

June 2021 - May 2024

- Developed and optimized Python/Django code with a focus on maintainability and efficiency, boosting end-user satisfaction by 20% through delivering reliable, bug-free software
- Prototyped new capabilities to assess feasibility and value, ensuring agile adaptation to evolving project requirements and ensuring optimal resource allocation
- Architected and executed a caching strategy using Redis that improved page load times by 60%
- Promoted twice within two years due to strong performance and organizational impact

Selected Project Experience

- Order to Ship Improvement
 - Initiated and managed end-to-end automation processes, reducing order-to-ship days by 50% and liberating \$11M in working capital through streamlined inventory management, bolstering operational efficiency enterprise-wide
- Ads Optimization
 - Collaborated with cross-functional teams to research and develop automation solutions, optimizing ad bid logic and increasing ad sales estimates by 15%
 - Optimized database queries using PostgreSQL, resulting in a 20% reduction in data retrieval time

CAO Systems Specialist

Quincy, MA

ADUSA Procurement

July 2018 - June 2021

- Oversaw 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
- Coordinated data migration tasks from legacy systems, reducing data inconsistencies by 25%

Selected Project Experience

- CAO Python Modernization
 - 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

Projects

JavaScript Discord | Twitch Bot

github.com/tu-nguyen/burrito-bot

- Leveraged modern web development technologies including TypeScript and Node.js to develop and deploy an application on an AWS EC2 server instance

Multi Weather Android application

github.com/tu-nguyen/multiWeather

- Utilized Java and four weather APIs to collect and parse location-specific JSON data, while integrating a Google Places API for an efficient autocomplete feature

Education

University of Massachusetts Boston

Boston, MA

Bachelor of Science in Computer Science

May 2018

Skills

- **Programming Languages:** Python, JavaScript, TypeScript, C/C++, C#, Java, SQL, Bash, HTML5, CSS3
- **Frameworks:** Django, Flask, FastAPI, .NET, Qt, React, jQuery, NodeJs, Express, Vite, Bootstrap, Tailwind
- **Databases & ORM:** PostgreSQL, MySQL, DynamoDB, MongoDB, Redis, SQLAlchemy, Django ORM
- **Other:** Git, Unix/Linux, AWS, Jenkins, Docker, Kubernetes, Jira, CI/CD, ETL, RESTful API, JSON, Selenium