

Tu Nguyen

Software Engineer

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Experience

Python Software Engineer II

Boston, MA

Perch

June 2021 - May 2024

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

Selected Project Experience

- Order to Ship Improvement
 - Led end-to-end automation, reducing order-to-ship days by 50% and freeing \$11M in working capital through streamlined inventory management, boosting enterprise-wide efficiency
- 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

- Managed a centralized SQL Server and Oracle Database supporting ordering, inventory, and forecasting systems for over 750 stores across three major supermarket brands
- Coordinated data migration tasks from legacy systems, reducing data inconsistencies by 25%

Selected Project Experience

- CAO Python Modernization
 - Led the development and deployment of a mass inventory update system, automating manual entries and saving 8,000 to 15,000 working hours weekly

Projects

Discord | Twitch Bot

github.com/tu-nguyen/burrito-bot

- Developed a Discord bot to enhance user engagement through automated responses and interactive features, utilizing TypeScript and Node.js, deployed on AWS EC2 to ensure scalability and reliability

Multi Weather Android App

github.com/tu-nguyen/multiWeather

- Created an Android app for real-time weather updates using four weather APIs, enhancing user access to location-specific data with integrated Google Places API for autocomplete

Skills

- **Languages:** Python, JavaScript, TypeScript, C/C++, C#, Java, SQL, Bash, HTML5, CSS3
- **Frameworks & Libraries:** Django, Flask, FastAPI, .NET, React, Node.js, Express, Qt, Vite, Bootstrap, Tailwind
- **Databases:** PostgreSQL, MySQL, DynamoDB, MongoDB, Redis
- **Tools & Technologies:** AWS, Git, Docker, Kubernetes, Terraform, Ansible, Jenkins, CI/CD, Nginx, ETL, Prometheus, Selenium, RESTful APIs, JSON
- **Operating Systems:** Unix/Linux, Windows, macOS

Education

University of Massachusetts Boston

Bachelor of Science in Computer Science

Boston, MA

May 2018