

Tu Nguyen

Software Engineer

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Experience

Software Engineer II

Boston, MA

Perch

June 2021 - May 2024

- Designed and implemented a caching strategy using Redis that improved page load times by 60%
- Developed and optimized Python/Django code for maintainability and efficiency, boosting end-user satisfaction by 20% through the delivery of reliable and bug-free software
- Prototyped new features to assess feasibility, enabling agile adaptation to evolving requirements and resource optimization

Selected Project Experience

- Order to Ship Improvement:
 - Led end-to-end automation process, resulting in a 50% reduction order-to-ship days and freeing \$11M in working capital through streamlined inventory management, boosting enterprise-wide efficiency
- Ads Optimization:
 - Collaborated with cross-functional teams to develop automation solutions, optimizing ad bid logic and increasing 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 that supported 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, enhancing operational efficiency

Projects

Analytical Exploration of Boston Crime Statistics

github.com/tu-nguyen/analytical-exploration-of-Boston-crime-statistics

- Conducted in-depth analysis of over 268,000 rows of Boston crime data leveraging Python, Jupyter Notebook, and libraries like NumPy, Pandas, and Matplotlib
- Extracted, cleaned, analyzed three years of Boston crime data, revealing trends and patterns through thorough exploratory data analysis and visualization

Discord | Twitch Bot

github.com/tu-nguyen/burrito-bot

- Built an interactive Discord bot with TypeScript and Node.js, featuring automated responses and deployed on AWS EC2 for scalability

Skills

- **Languages:** Python, JavaScript, TypeScript, SQL, Bash, HTML5, CSS3
- **Frameworks & Libraries:** Django, Flask, FastAPI, React, Node.js, Express, Vite, Bootstrap, Tailwind
- **Databases:** PostgreSQL, MySQL, DynamoDB, MongoDB, Redis
- **DevOps & Tools:** AWS, Docker, Kubernetes, Git, Terraform, Ansible, Jenkins, CI/CD, Prometheus
- **Other:** Unix/Linux, Windows, macOS
- **Technologies (Out of Practice):** .NET, Qt, C, C++, C#, Java

Education

University of Massachusetts Boston

Bachelor of Science in Computer Science

Boston, MA

May 2018