

Carmine Shorette

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EDUCATION

University of Wisconsin–Madison

September 2021 – May 2025

Bachelor of Science in Applied Math, Engineering, Physics (AMEP) & Computer Science

EXPERIENCE

Middleware/DevOps Development Intern

May 2024 – March 2025

Wisconsin Department of Employee Trust Funds

Madison, WI

- Led implementation of Jira Advanced Roadmaps feature for 200+ users, conducting security analysis, establishing permission protocols, and delivering training sessions to optimize project management workflows.
- Implemented Python automation suite to secure sensitive enterprise data, streamlining developer workflows while maintaining robust security protocols across configuration systems.
- Engineered data analytics scripts for Dynatrace platform, automating server metrics collection across 100+ servers and transforming manual monitoring processes into Excel-based reporting.
- Created analytics automation tools for Jira administration, reducing manual review time by implementing scripts to track administrator accounts and project activity metrics.
- Managed infrastructure upgrades including SonarQube and Elastic Agent installations, implementing best practices for code quality assurance and server monitoring.

Intern Software Engineer

May 2023 – September 2023

Comet

Madison, WI

- Architected a distributed backend system using Spring Boot, Hibernate, and Apache Kafka, efficiently managing over 100,000 entities. Optimized data storage with PostgreSQL, enhanced indexing with Elasticsearch, and streamlined retrieval processes, resulting in a 40% increase in system performance.
- Optimized data processing and query performance in a large-scale environment using Java Persistence API (JPA) and SQL techniques.
- Spearheaded the integration of RESTful Web Services to facilitate seamless data exchange and application interoperability.
- Automated deployment processes using Jenkins, enhancing development workflow and reducing deployment times by 30%.
- Contributed to the development of an intuitive analytics dashboard using GWT with Ext JS GXT, enabling real-time monitoring and decision-making.
- Participated actively in Agile sprint planning, daily stand-ups, and retrospectives, contributing to continuous improvement of the development process.

PROJECTS

PhotoLingo | *Python, PyTorch, Pandas, Scikit-learn, PostgreSQL, Celery, Redis*

- Engineered a Python-based machine learning application specialized in detecting and interpreting languages from photographs using PyTorch
- Developed and trained convolutional neural networks (CNNs) for image recognition and natural language processing tasks, achieving high accuracy rates
- Implemented data preprocessing and augmentation techniques using Pandas and Scikit-learn to optimize model performance
- Designed a robust database schema with PostgreSQL to efficiently handle large sets of image data and user inputs
- Employed Celery with Redis as a message broker to manage asynchronous tasks and improve backend processing capabilities

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres)

Frameworks: Flask, PyTorch, JSE, JEE, FastAPI

Developer Tools: Git, Docker, Redis, Google Web Toolkit, Hibernate, Kafka, Maven, SonarQube

Libraries: pandas, Scikit-learn, PostgreSQL, Spring