

Carmine Shorette

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EDUCATION

University of Wisconsin–Madison

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

Madison, WI

Aug. 2018 – May 2021

EXPERIENCE

Intern Software Engineer

July 2022 – September 2022

Comet

Madison, WI

- Designed and implemented a high-performance, distributed backend system capable of efficiently managing over 100,000 entities, leveraging advanced Java technologies.
- Optimized data processing and query performance in a large-scale environment using Java Persistence API (JPA) and advanced SQL techniques.
- Spearheaded the integration of RESTful Web Services to facilitate seamless data exchange and application interoperability.
- Played a key role in automating 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.

Computer Science Tutor

January 2020 – April 2020

CodeWiz

Remote

- Managed students ranging from ages 7 to 17 through introductory computer science classes focused on Java and Lua.
- Led the creation of a class designed for older children focusing on advanced topics of the Python language.
- Organized a tutoring environment that promoted productivity and learning, despite the remote challenges.

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
- Integrated GitHub OAuth for streamlined data retrieval and authentication from user's repositories
- Employed Celery with Redis as a message broker to manage asynchronous tasks and improve backend processing capabilities

ACTIVITIES

Chess Club

September 2021 – Present

University of Wisconsin–Madison

Madison, WI

- Managed teaching activities including bringing skilled individuals to present selected topics related to chess.
- Promoted a culture of good sportsmanship, cooperation, and responsibility.

TECHNICAL SKILLS

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

Frameworks: Flask, PyTorch, JSE, JEE, FastAPI

Developer Tools: Git, Docker, Redis, Google Web Toolkit, Hibernate, Apache Tomcat, Maven, UML

Libraries: pandas, Scikit-learn, PostgreSQL