

Nika Gedenidze

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EDUCATION

Caldwell University

Bachelor of Science in Computer Science, Minor in Mathematics

Caldwell, NJ

Aug. 2020 – May 2024

EXPERIENCE

Back-end Developer Intern

Sep. 2024 – Present

Mazi Restaurants LLC

Butler, NJ

- Engineered the backend of an Inventory Management System utilizing C# and .NET Core with Entity Framework, streamlining data management processes to reduce manual entry tasks by 40 hours per month for staff efficiency
- Implemented Entity Framework with a code-first approach to define database models and migrations
- Managed data transfers using the repository pattern, optimizing SQL Server queries against a relational database to front-end RESTful APIs calls, improving data retrieval efficiency by 25%
- Constructed T-SQL stored procedures and triggers to automate inventory processes, reducing manual stock updates by 80% and improving role-based user assignments
- Enhanced documenting API endpoints using Swagger, ensuring structured and interactive documentation for easier integration and debugging
- Implemented CI/CD pipelines using GitHub Actions, automating the build, testing, and deployment processes

Software Engineering Intern

May 2024 – Sep. 2024

Redhawk Research LLC

Tenafly, NJ

- Developed a full-stack admin portal using Prisma, Apollo Server, and GraphQL to optimize user data management, automate administrative tasks, and improve query execution speed by up to 40%
- Integrated Docker Compose to containerize and deploy the service on Google Cloud Run to improve scalability
- Implemented user activity tracking and inspection tools, enabling real-time insights and improving system oversight, which enhanced data accuracy by 25% and accelerated decision-making by 30%
- Optimized PostgreSQL queries by utilizing indexes and caching strategies, reducing database query latency by 20%
- Wrote unit tests, functional tests, and performance tests using Jest for backend services, achieving 75% test coverage and reducing deployment bugs

Artificial Intelligence Research Assistant

Mar. 2022 – May 2024

Interdisciplinary Center for Quantitative Research

Caldwell, NJ

- Led a research project optimizing training workflows of *Convolutional Neural Networks* on 150,000+ item dataset through transfer learning, improving model efficiency and accuracy
- Designed and implemented 100+ diverse architecture models to identify relationships and trends in large datasets using Python, TensorFlow, and Keras
- Employed statistical techniques to clean, manipulate, and validate datasets, ensuring accuracy and consistency
- Created interactive visualizations for 100% of models using Matplotlib to convey data insights to non-technical reviewers, to increase clarity

PROJECTS

Wordle | Javascript, React, MongoDB, Express

Oct. 2023 – Dec. 2023

- Built an innovative multi-platform game app replicating core mechanics of New York Times' Wordle utilizing technologies such as Javascript, HTML, and CSS
- Optimized MongoDB queries using indexing and aggregation pipelines, reducing data retrieval time by 40%
- Designed a data caching mechanism using Redis to minimize redundant database queries
- Streamlined the deployment using Firebase Hosting and Functions to reduce the server response time by 30%
- Managed code version control using Git, ensuring seamless collaboration and efficient code management across the development team

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C#, Java, SQL (Postgres), HTML, CSS

Frameworks: React, Node.js, Flask, Prisma, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, Firebase, Google Cloud Platform, AWS, VS Code, Visual Studio, PyCharm

Databases & Caching: PostgreSQL, MongoDB, Redis

Data Science & AI: TensorFlow, pandas, NumPy, Matplotlib