Nika Gedenidze

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SKILLS

Programming/Frameworks: JavaScript, Python, Java, HTML, CSS, Node.js, Express.js, React, TensorFlow, Apollo Server;
Libraries and Database: PostgreSQL, Prisma, GraphQL, MongoDB, Google Cloud SQL, Mongoose;
Cloud Services/Tools: Firebase Functions, Google Cloud Run, Docker, VS Code, GitHub, Jupyter Notebook.

EDUCATION

Caldwell University | Bachelor of Science in Computer Science, Minor in Mathematics   08/20 - 05/24
- GPA: 3.80 / 4.0;
- Honors in Computer Science, Presidential Scholarship ($30,000/y), Dean's List (2020 - 2024);
- Selected Coursework: Artificial Intelligence, Design & Analysis of Algorithms, Data Structures & Algorithms, Software Engineering Capstone, Full-Stack Web Development, Operating Systems, Networking and Communications.

EXPERIENCE

Software Engineering Intern   05/24 - Present
Redhawk Research| Remote

- Spearheaded the design and development of a full-stack admin portal using Prisma, Apollo Server, and GraphQL, leading to a 30% reduction in database response time.
- Developed and delivered core features, user registration, and permission inspection, to contribute to 100% operational readiness for user management and a seamless user experience.
- Designed and implemented user activity tracking and inspection tools, providing real-time insights and bolstering system oversight, which led to improved data accuracy and informed decision-making.
- Improved system scalability by implementing efficient data querying and API requests using GraphQL and Apollo Server, contributing to a 50% increase in system performance and a significant reduction in latency.
- Architected 30+ custom GraphQL queries and mutations to manage 25+ PostgreSQL tables with relations via Prisma, with an impact on system interoperability, increasing it by 60% and enabling seamless data exchange.
- Utilized TypeScript and the Refine React library to create a responsive and user-friendly front-end to ensure seamless integration with the back-end.

Front-End Web Developer Intern   06/24 - Present
AeroDefense| Remote
- Engineered and maintained over 15 pages on the company's main website using WordPress.
- Implemented custom plugins to enhance responsive design and accessibility, collectively boosting user engagement by 40%, increasing conversion rates by 25%, and resulting in a 20% increase in customer satisfaction.
- Designed custom components and functional modules using JavaScript, HTML, and CSS, improving user decision-making efficiency by 25% and enhancing the overall user experience.
- Optimized the website for search engines (SEO), leading to improved search rankings and increased organic traffic.
- Participated in biweekly Scrum meetings as part of the Agile development process, ensuring continuous improvement and timely updates to the website's features.

Machine Learning Research Assistant   03/22 - 05/24
The Cog AI lab | Caldwell, NJ

- Leveraged Python, TensorFlow, Keras, and Matplotlib to develop and visualize the performance of models, resulting in 40+ interactive visualizations and a 50% improvement in model interpretability.
- Refined CNN training on the HasyV2 dataset by implementing layer freezing schedules, achieving approximately 10% faster training times and a 2% higher validation accuracy than traditional CNNs.
- Led a transfer learning project on the HasyV2 dataset, incorporating 10+ models with custom backpropagation trained on MNIST image datasets, reducing training times by 57.7% and 66.2% on each dataset.

PERSONAL PROJECTS

Full Stack Web Developer   12/22 - 07/23
Caldwell University | Caldwell, NJ

- Developed a cross-device web app inspired by NY Times Connections using JavaScript, HTML, CSS, and Express.js.
- Enhanced backend performance and security with JSON Web Token authentication, and REST API model structure.
- Integrated a 10,000+ word database and implemented data pipelining, improving gameplay complexity and user experience.
- Utilized MongoDB for scalable data storage and jQuery API to source 5-letter words from GitHub, enhancing game functionality.
- Streamlined deployment using Firebase Hosting and Functions, reducing deployment time by 30% and achieving server response times of ~400ms.