

# Lucas Miller

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## EXPERIENCE

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### FortisureIT

Green, OH

Software Engineer

September 2022 – Present

- **Led a team** in modernizing a 15+ year old **VB .NET** web app to a **React/Next.js** platform while maintaining legacy system operations.
- **Refactored and ported** a mission-critical feature from VB .NET to React/Next.js, reducing load times by 96.67% (from 5 minutes to 10 seconds) through database query and code optimization.
- **Deployed and managed** Next.js web apps on **Azure**, ensuring smooth integration, scalability, and continuous delivery.
- **Acted as the primary client contact**, coordinating maintenance and development with the team.
- **Integrated Google Firebase Authentication** with Next.js, creating a reusable, modular login system for various clients.
- **Increased registered users by 10,000** (2022–2024) through the implementation of a reusable SEO optimization system and feature advertisements.

## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA (Online)

MS in Computer Science

Starting Spring 2025

### Kent State University

Kent, OH

BS in Computer Science

August 2018 – December 2021

- Achieved a GPA of 3.4
- Coursework in Data Structures, Algorithms, Object Oriented Programming, Database Design, Operating Systems, Linux Systems Programming, Embedding Programming, Robotics, etc

## PROJECTS

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### Blog Style Portfolio Site – React, Next.js, Tailwind, SQL

November 2021 – December 2021

<https://lucasmiller.dev/>

- **Developed** a full-stack blog-style portfolio site to showcase personal and professional projects with dynamic updates.
- **Created a blog page** using TypeScript and Next.js that allows visitors to add comments and interact with content.
- **Designed and implemented** a custom WYSIWYG block-based editor for writing and managing blog posts.
- **Stored project data, and user comments** in a backend **SQL** database, ensuring efficient data management.
- **Integrated unit testing** with the **Jest** testing library to ensure reliability and maintainability

### Natural Language Query Image Database Search Tool – Python, Flask, Tensorflow

January 2020 – May 2020

<https://github.com/Lucas-Miller/nlq-traffic-app>

- **Developed a tool** to help developers efficiently search large datasets for specific images used in edge cases for vision model training.
- **Trained models** on a dataset of 10 million image/caption pairs, improving model accuracy for specific image retrieval tasks.
- **Led development** of a front-end web application, providing an intuitive interface for users to interact with the tool.
- **Integrated natural language queries** and a dual text-vision encoder to enable advanced image searches through the web application.
- **Designed and implemented** an algorithm to compute dot product similarity between image-text embeddings and natural language queries, optimizing search results.
- **Collaborated in a team of 4** to complete this project as part of Kent State University's Computer Science Capstone 2020.

## SKILLS & AWARDS

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**Programming Languages:** C++, C#, Visual Basic, Python, Javascript, Typescript, HTML / CSS, SQL (T-SQL, MySQL)

**Tools, Frameworks, Etc:** Git, SVN, Visual Studio, Linux, Django Web Framework, React, Next.js, .NET, Bootstrap, TailwindCSS, Docker, Azure, Firebase, RESTful API Development