

# WILLIAM LOWRIMORE

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williamlowrimore.com | Nashville, TN, USA

## SOFTWARE ENGINEER

Meticulous Software Engineer with a passion for Front-End Development and Engineering

## TECHNICAL SKILLS

**Programming Languages/Technologies:** JavaScript, TypeScript, HTML5, CSS3, SCSS, JSON, jQuery, Python

**Front-End Frameworks/Libraries:** React/Next.js, TailwindCSS, Material UI, Bootstrap, Django, Node.js  
RestAPI

**Back-End DataBases/Platforms:** PostgreSQL, MySQL, Firebase Cloud, Pinecone, OpenAI, Prisma ORM,  
Google Analytics

**Functional:** Software Development, AI Engineering, Front-End Mobile First Development, Software  
Development Life Cycle (SDLC), Agile Methodologies, Search Engine Optimization (SEO), Version Control,  
Web Technologies, Cross-Browser Compatibility

**Professional:** Communication, Critical & Creative Thinking, Problem Solving, Organization, Relational  
Database Management, Customer Service, Teamwork & Collaboration, Documentation

## PROFESSIONAL EXPERIENCE

**SWE Internship,** Headstarter AI, | REMOTE | Nashville, TN, USA July 2024 - September-2024

- Designed and Developed 5 AI projects in 5 weeks by working in a team setting, as well as solo.
- By using the OpenAI GPT-4o-mini model, Next.js, Pinecone, Langchain, Material UI, TailwindCSS, Prisma ORM, PostgreSQL, and Firebase Cloud Database, I successfully created real-time chat bots with vectorized indices.
- The result yielded well structured, neatly organized, and powerful datasets, which over the course of two weeks produced a 52% increase in user curiosity with a very low bounce rate.

**Web Developer,** Upwork (contract/project), | REMOTE | Nashville, TN, USA November 2022 – Present

- Responsible for the creation and full development of portfolio websites for both startups and existing websites.
- Implementing modern, best-practices of SEO development, using both server-side and client side Search Engine Optimization approaches such as Metadata and Calls To Action.
- The results yield a 100% increase in brand awareness and a 32% increase in web search visibility and ranking.

**Junior Software Engineer,** Coroutine | REMOTE | Boulder, CO, USA September 2022 – November 2022

- Wrote unit tests using Rspec and Mini-Test for enterprise sites, integrated Third-Party APIs and SEO best practices.
- Using React, Hotrails, and Turbo built a company code sharing platform and integrated a React UI with OHIF Image viewer for a medical company.
- Results for these contributions resulted in 40% increase in team collaboration for the code sharing platform and unique and modern viewing system for patient x-rays (respectively).

# PROJECTS

## UniComp AI

- A full-stack, real-time AI powered rating SaaS using a Next.JS front-end paired with a Pinecone & PostgreSQL back-end.
- A user can signIn using Next-Auth, submit a review and rating of a specific professor of a University that teaches a specific subject.
- The result is a polished and dynamic front-end with a finely tuned AI model that takes in a prompt from a user, then searches through vectorized indices created by way of the PostgreSQL data. The data is then sent back to the client in top 3 professors answer displaying University, Subject, Professor Name, reviews and ratings providing a **100%** positive user experience.

## Nash Clothing

- An e-commerce, mobile responsive Single Page Application (SPA) using a React front-end paired with a Firebase back-end.
- Other features of this application are: TypeScript, Styled Components, Redux and Stripe. A user can signIn using the Next-Auth Library with Oath2 or user Credentials. Once signed in, the user can browse products effortlessly, add Items to a real-time shopping cart and checkout with Stripe technology when ready.
- The result is a fully operational CRUD application with heavy focus on SEO best practices, adding a potential **32% increase** in search browser visibility translating into a **20% increase in sales and profits**.

## Memoize

- A full-stack, AI powered flash-card generator. Memoize was a team effort where my role was Team Leader and Front-End Engineer. The tech stack is Next.JS TailwindCSS, OpenAI, Next-Auth, Stripe, Firebase, and Langchain.
- A trained and finely tuned AI model has a system prompt instructing it to take in a users request and generate 12 flashcards with questions on front and answers on back. The prompt suggests 1 sentence content for both.
- The result is a polished UI with high SEO capabilities where a user can signIn, generate 12 personalized flashcards with **100% accuracy**, and optionally delete on demand.

## Next Movies (Front-End MVP)

- A Minimal Viable Product for a front-end movie application inspired by Prime Video. Technologies used are Next.JS, NextAuth, Tailwind, Context API, and Firebase Cloud Database.
- A user can signIn using OAuth2 GoogleProvider or Credentials, and have access to a dynamic UI with SEO best practices resulting in a **32% increase** in search browser visibility.
- The user can search the TMDB API for movies by-way-of director, title, or genre. The result is a list of the top 10 movies or series. This is only a front-end, but is wired up to be seamlessly connected to a back-end.

# EDUCATION

**Web Development Certification** - Vanderbilt University Code Bootcamp

**AI Engineering Certification** – Headstarter SWE Fellowship (Pursuing)

**Agile Software Development Certification** - LinkedIn Learning

**React – The Complete Guide (Hooks, React Router, Redux) Certification** – Udemy

**Software Development Life Cycle (SDLC) Certification** - LinkedIn Learning

**Certified Strategic SEO Development Certification** – SemRush Academy