

KIERAN SERRA

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EDUCATION

Bachelor of Computer Science, University of Massachusetts Amherst Expected 2026
Relevant Coursework: Intro to Python, DS&A, OOP, Linear Algebra, Reasoning Under Uncertainty, Statistics, Discrete Math, Programming Methodologies, Intro to Data Analysis

SKILLS

Programming Languages and Technologies: Python, Java, C, Typescript, R, React.js, Next.js, PostgreSQL, Linux, Tailwind CSS, Flask, Git, Vercel, Django

PROJECTS

Information Retrieval Project - Java

- Implemented an Information Retrieval system in Java incorporating TF-IDF methodology and various additional features.
- Designed and developed a robust search engine that enables querying based on specific terms and relevance lookup.
- Successfully delivered a functional system that enhances data retrieval efficiency and accuracy.

Website Portfolio Project - React.js, Next.js, Tailwind CSS, Vercel

- Developed an interactive personal website portfolio using React.js, Next.js, and Tailwind CSS for front-end development.
- Leveraged React's features to implement dynamic components, incorporating animations to enhance user engagement.
- Deployed using Vercel for hosting and scalability.

To-Do List Application - React.js, PostgreSQL, Flask, Postman

- Created a full-stack to-do list application using React.js for the frontend and Flask for the backend, integrating user authentication for security.
- Employed PostgreSQL for efficient data storage and management.
- Applied Postman for in-depth exploration of security protocols, particularly focusing on cookie management.

EXPERIENCE

Tech Assistant

Mar 2020 - Oct 2020

Billy Keenan

Stony Point, NY

- Created visually captivating and engaging videos, utilizing editing techniques and software tools to produce high-quality content.
- Demonstrated exceptional attention to detail while providing comprehensive technical support, assisting a quadriplegic individual in overcoming barriers to accessing and navigating computer tasks effectively.
- Engineered a surge in the Facebook page's online presence through captivating content and increased engagement

Barista/Salesperson

Aug 2017 - Sep 2021

The OutsideIn

Piermont, NY

- Assisted with advertising, store layout, and sales optimization including social media design.
- Engaged with customers, promoting sales of professional artwork and beverages

ACTIVITIES

Piano - Demonstrated exceptional musical talent and dedication by playing piano at a high level for 15 years, including performances at Rockland Conservatory of Music. Obtained perfect scores on NYSSMA and Royal Conservatory Exams.