

John Zolton

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TECHNICAL EXPERIENCE

Patense.ai

- **Developed and launched Patense.ai**, an advanced patent prosecution tool designed to help lawyers analyze office actions, utilizing **Next.js, tRPC, Prisma, Tailwind, and AWS Lambda**.
- **Implemented sophisticated AI-driven functionality** with OpenAI LLMs to extract and search for inventive features from patent specifications, reducing attorney time significantly.
- **Optimized data processing** through recursive feature extraction using a custom $O(\log(n))$ algorithm, enhancing the system's scalability for documents over 100 pages.
- **Integrated vector databases** to efficiently query and retrieve relevant patent references, improving search precision and performance.
- **Engineered the application structure** with AWS Lambda for serverless computing, Stripe for payments, and Clerk for authentication, ensuring robust and secure user management.
- **Designed a user-friendly interface** allowing users to either automate the extraction of inventive elements or conduct high-precision searches, leveraging prompt engineering and regex for accurate results.

Liftr.club

- **Developed a comprehensive bodybuilding coaching app** using Next.js, React, TypeScript, tRPC, Prisma, Tailwind CSS, enabling users to create, plan, edit, and log workouts seamlessly.
- **Implemented a sophisticated match-or-beat algorithm** that tracks workout performance week-to-week, creates target weight and reps while providing alerts when performance declines
- **Engineered user-friendly features** for workout management, including customizable plans, target weight and rep displays, and intuitive add/remove functionalities for sets, exercises, and workouts.

EDUCATION

The University of Akron School of Law, Akron, OH

Juris Doctor GPA: 3.35 / 4.00

May 2023

Activities and Honors: Akron Law Honors Scholar, Dean's List Fall 2021, Fall 2022

The University of Akron, Akron, OH

Bachelor of Science in Biomedical Engineering: Tissues and Biomaterials with Co-Op May 2020

GPA: 3.55 / 4.00

Activities and Honors:

Williams Honors Scholar, Dean's List: Spring 2020, Fall 2019, Spring 2019, Fall 2017, Fall 2015

University of Akron Scholarship for Excellence, Honors Scholarship

Varsity Track and Field, 2015-2017

WORK EXPERIENCE - USPTO Patent Agent Reg. No. 80,929, Ohio Attorney No. 103,738

McBee, Moore & Vanik IP, LLC, Frederick, MD

Associate,

Aug 2023 – Present

- Draft and file provisional and nonprovisional applications
- Manage worldwide prosecution for multiple patent families
- Overcome Foreign and Domestic Office Actions while preserving key invention aspects