

# ANDRE ARCAINA

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## Summary of Qualifications

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- Leveraged leadership, design thinking, and analytical skills to develop a client-centric CRUD web application using Django, Next.js, Supabase, and PostgreSQL. Demonstrated a strong understanding and experience with React, RESTful communication, HTTP endpoints, and WebSocket handling, while adhering to software principles.
- Worked closely with club executives to gather requirements and design specifications, developing web applications with a focus on responsiveness, accessibility, and user experience. Conducted comprehensive testing, implemented efficient code workflows, and achieved successful deployed previews, leading to positive client feedback.

## Skills

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**Languages:** Python • JavaScript • TypeScript • Rust • Java • C • Elixir • PostgreSQL

**Technical:** Flask • Django • Next.js • FastAPI • Express.js • React.js • Node.js • TailwindCSS

**Developer Tools:** VS Code • Neovim • Git • Postman • Bash • Docker • Supabase • Vercel

## Relevant Experience

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### DataKinetics

May 2024 – Present

*Software Development Intern*

Ottawa, ON

- Collaborated with software engineers of varying expertise levels to develop and package a JavaScript library. The library parses a COBOL Copybook from a Mainframe RESTful API Interface for client delivery, leading to positive client feedback.
- Built and enhanced a Single Page Application with Next.js, enhancing server side rendering, client optimization, and user functionality, reducing page load times by 15% and enhancing overall application performance.
- Implemented a comprehensive suite of test cases using Postman to thoroughly test the RESTful API Interface.

## Projects

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**Vivid Fitness** | *Django, Next.js, TailwindCSS, Supabase, PostgreSQL, WebSockets* | [GitHub](#)

Mar 2024 – Present

**Full Stack Development, QA Testing, Scrum Methodology**

- Led the development of a Software as a Service application enabling real-time interaction, finance and membership management, and profile services for members, coaches, and treasurers for amateur fitness clubs.
- Implemented a JWT user authentication system to securely manage access for different club roles within the web service, aligning with industry standards. This approach ensures efficient and robust security protocols within the application.
- Lead the implementation of a real-time chat feature using Django Channels and JavaScript's built-in WebSockets API, resulting in a notable reduction in response time and significantly enhancing user engagement within the application.
- Managed and executed tasks from a Product Backlog, following Scrum principles in the software development lifecycle.

**Pyggle** | *Python, FastAPI, OpenCV, EasyOCR, Next.js, TailwindCSS* | [GitHub](#)

Feb 2024 – Present

**Data Structures & Algorithms, Full Stack Development, Computer Vision**

- Developed a boggle solver module in Python that utilizes the Depth First Search algorithm to traverse through a given boggle board, finding all possible words and coordinates given a list of words.
- Implementing a web demo application to allow users to utilize the pyggle module through an interactive boggle board, by a user inputted string, or by sending an image for the server to preprocess.

**Nectar** | *Flask, Next.js, BeautifulSoup4, TailwindCSS* | [GitHub](#)

Nov 2023

**Full Stack Development, Web Scraping**

- Managed the development, testing, and strategic planning of a client-centric e-commerce web application incorporating web scraping technology, aimed at optimizing buying and selling processes.
- Implemented a user-friendly query form generating statistical models to streamline online shopping and selling.
- Winner of UofT's NewHacks2023 Best E-commerce Hack and Best Use of GitHub

## Education

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**Computer Science Co-op - BSc (Hons)**

Sept 2022 – Present

**Toronto Metropolitan University (Formerly Ryerson University)**

- Activities: President & Founder of IBMz Society, VP of Finance at PACS, Web Development Lead at TMUCSA
- Relevant Courses: Comparative Programming Languages (SmallTalk-80, Elixir, Haskell, Rust), Web Systems Development (HTML/CSS, JS, PHP, MySQL, Vue.js), Data Structures (Common Lisp)