Milahn Martin

Junior Software Engineer

Honours graduate with expertise in both front-end and back-end development. My strong background and passion for learning drive me to excel!

Employment History

Junior Software Engineer at FREI PTY LTD, Pretoria

FEBRUARY 2023 — JANUARY 2024

During my tenure at FREI PTY LTD, I played a pivotal role in developing and maintaining web applications, with a strong emphasis on both front-end and back-end development.

On the front end, I worked extensively with modern technologies such as Vue3, Pinia, Firebase, Tailwind CSS, and Bootstrap. These technologies allowed me to create intuitive and visually appealing user interfaces, ensuring seamless user experiences. My contributions on the front end were essential in crafting the user-facing aspects of our applications.

Simultaneously, my primary focus was on back-end development, where I specialized in using Node.js and TypeScript. I designed and implemented robust and efficient server-side applications, and I created RESTful APIs that served as the backbone of our applications. These APIs facilitated data retrieval, storage, and manipulation, ensuring the smooth functioning of our software.

To maintain the reliability and stability of our software, I integrated unit testing into our development process using Chai and Mocha, paying close attention to the quality of our back-end code.

Additionally, I took on the responsibility of deploying our applications into production environments. I utilized PM2 to manage the deployment process, ensuring high availability and performance of both the front-end and back-end components. This involved configuring servers, load balancing, and monitoring the health of our services.

One of my significant contributions during this time was the creation of an NPM package that encapsulated reusable logic, benefiting both front-end and back-end development. This package streamlined our development process, enhanced code reusability, and saved time and effort for the entire development team.

My work at FREI PTY LTD required a deep understanding of both front-end and back-end technologies, rigorous testing practices, and a commitment to delivering

Details

Pretoria, South Africa
0724469767
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Date of birth
23 February 2001

Nationality
South African

Links

github
LinkedIn

Skills

Node.js

HTML & CSS

Git

SQL

Vue.js

React.js

Tailwind CSS

Python

Java

Kotlin

Typescript

high-quality, maintainable, and efficient software solutions. My contributions were instrumental in achieving the company's objectives and mission.

Education

Menlopark High School
Matriculated in 2019.

BSc IT (Software Engineering) at Eduvos, Pretoria
JANUARY 2020 — DECEMBER 2022
NQF LVL 7, graduated with highest Honor.

BSc IT (Software Engineering) Honours at Eduvos
JANUARY 2023 — NOVEMBER 2023

Languages
Afrikaans
▬▬▬▬▬▬ ▬

English
▬▬▬▬▬▬▬

Hobbies
Cricket, Rugby, Tennis, Gym, Gaming, Hiking.

Extra-curricular Activities

CSS, HTML, JQuery, Javascript, PHP at sololearn, Pretoria
JANUARY 2022 — MARCH 2022

Projects

Loadshedding Planner
SEPTEMBER 2022 — FEBRUARY 2023

Take Load Shedding Times of players and calculate possible availible times of players based on minimum time required to play a game (this can be set by user). Tech Stack - Next.js, Typescript, Firebase, Tailwind CSS. Source Code - https://github.com/milahnmartin/loadshedding-time-planner

Android Application Book Store
JUNE 2022 — JULY 2022

Sell and buy second hand textbooks easily by uploading or searching for textbooks needed. Search via ISBN or Module Code. Tech Stack - Java, SQLite, Android Studio. Source Code - https://github.com/milahnmartin/EduBooks-ITMDA-Android.

E-commerce Energy Drink
JULY 2022 — AUGUST 2022

Looking For Popular Energy Drinks Like Red bull and Monster ? Look no further, this site provides you with all the popular energy drinks and easy to search feature. Tech Stack - PHP, MYSQL, HTML5 , JavaScript. Source Code - https://github.com/milahnmartin/milahnmartin-iteca-ecommerce.

Gaming Statistics - Fingerprint ZA
JULY 2020 — JANUARY 2021

Looking for you favorite players gaming settings ? look no further, simply search for your favorite player and get their settings to level up your game. Log in with Firebase to upload or update your own settings. Tech Stack - Firebase, Java Script, HTML5, CSS3 , JQuery.

Admin Panel
JUNE 2021 — OCTOBER 2021

Created a possible Admin Panel for a company to track clients. Didn't completely finish the admin panel. Repo can be find here - https://github.com/milahnmartin/Phase-Three-AdminPanel

Honours SOA Services, Pretoria

Honours Project - Microservices in SOA (Service-Oriented Architecture)-
As part of my academic journey, I undertook an ambitious Honours Project centered around the implementation of Microservices within a Service-Oriented Architecture (SOA). In this project, I demonstrated my prowess in modern technology stacks, predominantly employing TypeScript and Node.js to create multiple backend services.

My role entailed designing, developing, and deploying these microservices, each serving a specific function within the broader SOA framework. Leveraging Firebase as a supportive platform, I ensured seamless communication and data management between these services.

Throughout this project, I gained valuable experience in orchestrating a distributed system, optimizing performance, and ensuring scalability. My work showcased my ability to tackle complex architectural challenges and deliver efficient solutions within the realm of Microservices and SOA.

This project not only deepened my knowledge of microservices but also demonstrated my practical skills in building robust, distributed systems using cutting-edge technologies. It reflects my dedication to mastering back-end development and the real-world application of service-oriented principles.

Repo Link -
https://github.com/orgs/Milahn-Henri-Louis-Irwin-ITBSA/repositories

Honours ReactJS Map UI, Pretoria

Front-End Development with ReactJS, Vite, Tailwind CSS, and TypeScript

In the development of our project, I took the lead in building the front-end component, a dynamic and responsive user interface that seamlessly integrates with our robust Service-Oriented Architecture (SOA) backend services.

Leveraging cutting-edge technologies, I used ReactJS to create a highly interactive and user-friendly front-end. The use of Vite, a fast build tool, ensured quick and efficient development, resulting in a responsive user interface that delivers a seamless experience to users.

Tailwind CSS was employed to facilitate the design and styling process, offering a modern and visually appealing interface. The use of TypeScript added a layer of type safety to our codebase, improving its reliability and maintainability.

One of the standout features of our front-end is the integration of a real-time map. This map serves to notify users about activities happening around the world, thanks to the data provided by our SOA backend services. The seamless connection between the front-end and the microservices in the SOA architecture ensures that users receive timely and accurate information about global activities.

This project underscores my ability to create user-centric, efficient, and visually pleasing front-end solutions that seamlessly interact with back-end services in a Service-Oriented Architecture. It showcases my expertise in combining various technologies to deliver a cutting-edge user experience.

- https://github.com/Milahn-Henri-Louis-Irwin-ITBSA/tripwiz-ui

Achievements

Academic Excellence Award 2020 - Eduvos, Pretoria

Academic Excellence Award 2021 - Eduvos, Pretoria

Academic Excellence Award 2022 - Eduvos, Pretoria