

NICHOLAS EMMANUEL C

Software Engineer

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EDUCATION

University of the People Sep 2023 – Dec 2026
Bachelor of science in Computer Science California, USA

Microverse May 2022 – Dec 2022
Full-stack Web Development Remote Bootcamp

Dean's Honors List: Spring 2024 (Top 15%) - CGPA: 3.75

WORK EXPERIENCE

Atop Web Technologies Mar 2023 – June 2024
Software Engineer Intern Stockholm, Sweden (Remote)

- Designed and implemented **30+ React components**, utilizing **Redux** for state management and **Firebase** for backend services. This strategic approach enhanced maintenance efficiency by **35%** and reusability by **52%**, successfully onboarding **43 active studio owners** during the initial launch phase.
- Implemented **10+** serverless workflows using **Firebase Cloud Functions**, seamlessly integrating **REST APIs** and conducting rigorous testing, which led to a **70%** reduction in execution time and improved operational efficiency.
- Developed a microservice logic engine using **Node.js** and **Express.js**, implemented a **CI/CD** pipeline, and containerized the application with **Docker**. Successfully deployed the solution, optimizing cloud resource allocation to enhance scalability and reliability.
- Collaborated closely with a team of **2 developers and a team lead** to ensure the seamless operation and continuous improvement of Scorebox, facilitating a significant decrease in development cycle time.

Taaleem June 2022 – Sep 2023
Frontend Engineer Casablanca, Morocco (Remote)

- Designed and implemented a comprehensive educational system using **Next.js** and **Nest.js**, seamlessly integrated into the company's website, resulting in a **20%** increase in educational participation due to its intuitive and accessible design.
- Built a customized admin panel to manage and monitor student activities effectively, enhancing transparency and **streamlining** the learning process, leading to a **60%** reduction in time spent on administrative tasks.
- Utilized auto-grading tools to automate **quizzes and assessments**, providing students with real-time feedback and contributing to a transparent and error-free learning experience.

- Implemented and enhanced the company's official website, establishing a vital online presence and driving a **surge of over 20%**.
- Improved the company's search engine rankings by using **SeoClarity** Search Engine Optimization (SEO) techniques, resulting to **Extensive suite** of SEO analysis tools and **Generative AI assistant**
- Worked with more than **3 departments** across the company, including **marketers**, **DevOps team** and **project manager**, in developing new ideas, initiatives, products, and services leveraging **NextJs**, **GraphQL** and **wordpress**.

PROJECTS

Fresh Diamond Exchange | Website | Source Code

Next.js | Sanity CMS | MongoDB

- Engineered a comprehensive data statistics using **Sanity CMS**, followed by a dynamic manipulation and presentation of data through a **next.js** application.
- Implemented a real time data manipulation within a **Postgres** database through the effective use of **SQL** queries establishing a seamless with user friendly **Next.js** interface.

Scorebox Event App | Website | Source Code

React.js | Firebase | express.js

- Developed an intuitive **React.js** application tailored to international event management system for organizers and studio owners to create events.
- Crafted a metrics for judges, emcees and stage managers to seamlessly give scores based on performance by the dancers.

Bug Tracking App | Website | Source Code

Next.js | Typescript | Pusher | Node.js | express.js

- Developed an intuitive **Next.js** application tailored for a collaborative learning environment, seamlessly connecting the back-end to facilitate tracking bug using the **Node API** and **pusher**.
- Engineered an innovative chat solution on the app leveraging **Node.js**, **express.js** and **pusher** to provide a comprehensive coverage and insights across various development disciplines, and **Next.js** with **Typescript** for amazing UI.

TECHNICAL SKILLS

Languages: Javascript, Python, Java, HTML/CSS, SQL, Go, Typescript

Tools and Methods: Postman, Git, Developer tools, Netlify, Vercel, Google Analytics, VsCode

Libraries/Frameworks: React.JS, Next.JS, RtkQuery, HTMX, Express.js, PostgreSQL, Firebase, MongoDB, Docker, Kafka, Redux, Zustand