

# JEROME ESGUERRA BERCERO

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## EDUCATION

### Technological Institute of the Philippines (2020-2024)

Quezon City

Bachelor of Science in Computer Science

### Technological Institute of the Philippines (2018-2020)

Quezon City

Science, Technology, Engineering and Mathematics

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## WORK EXPERIENCE

### Cloudwalk Digital Inc.

Quezon City

Web Developer Intern

Feb 2024 - May 2024

- Worked in a small software company, undertaking various responsibilities such as developing the frontend part of the web application using HTML, TailwindCSS, JavaScript, React, and Next.js. And utilize UI libraries for seamless and interactive User Interface such as Ant Design and Material UI.
- Developed the backend part of the system using TypeScript such as creating the API Routes for frontend and backend of the system including integrating web services like NextAuth for authentication and authorization features.
- Implemented the ReduxToolkit JS Library for state management across the application.
- Hosted the project on Vercel and utilized PostgreSQL and Prisma for database creation and management.
- Participated in stand-up meetings with project managers, UI/UX designers, and fellow software developers to ensure smooth project progression.

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## PROJECTS

### 1. Nike Minimalist e-Commerce

Final Project (S.Y 2022-2023)

- Used HTML, CSS, React, JavaScript for the responsive and interactive UI components of the frontend part of the system, utilize the React-Router seamless navigation and dynamic routing, and Redux Toolkit for statement management across the web application.
- Developed the backend system such as creating the API routes and business logic of the web application using C#, ASP.NET Core, ASP.NET Web API including the creation and management of the database using Entity Framework Core and MS SQL.
- ***You can check the full documentation of this project at my personal website.***

### 2. CWD Randomizer

Internship Project (Feb 2024 - May 2024)

- Created the UI components of the frontend part of the system using HTML, TailwindCSS, React, Redux Toolkit, NextJS, and utilized some UI components libraries such as Ant Design and Material UI.
- Developed the backend part of the system using JavaScript to create the API routes, business logic, and to integrate web services.
- Integrated the authentication and authorization feature using NextAuth
- Hosted the project on Vercel, utilized PostgreSQL, and Prisma for creating and managing the database
- ***You can check the full documentation of this project at my personal website.***

### 3. Filipino Grammar Emendation Using Conditional Random Fields

Thesis Project (S.Y 2023 - 2024)

#### Part-of-Speech Tagging and Bidirectional Encoder Representations from Transformers

- Collaborated for creating the backend part using Python, FastAPI.
- Developed the mobile application using React Native and implemented Speech-to-Text and Text-to-Speech features.
- *You can check the full documentation of this project at my personal website.*

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## KNOWLEDGE & SKILLS

#### Web Development:

- **Frontend:** HTML, TailwindCSS, JavaScript, React, NextJS,
- **Backend:** C#, ASP.NET Core, WebAPI, MVC, Entity Framework Core, LINQ, Swagger

**Database:** PostgreSQL on Vercel, MS SQL, and Prisma.

**Other:** Redux Toolkit, React-Router, Testing Framework (Jest), Redux DevTools.

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## SEMINARS AND TRAININGS ATTENDED

**Harvard University: CS50's Introduction to Computer Science edX.org Free Online Courses**

July 23, 2020

**IBM: Introduction to Web Development with HTML5, CSS3, and JavaScript edX.org Free Online Courses**

February 08, 2021

**Cyberlinked: A connected Community of Students Towards A Safer Cyberspace**

January 25, 2023

**InnoVision: Technopreneurship Learning Series**

August 16, 2023

**Career Preparation: Preparing and Navigating the Job Market as a Developer**

January 16, 2024