Muzi Gondwe

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EDUCATION

National Tsing Hua University — Hsinchu, Taiwan
Masters of Science in Computer Science — *Aug 2017 – May 2019*

University of Swaziland — Kwaluseni, Swaziland
Bachelor of Engineering in Electrical and Electronic Engineering — *Aug 2010 – May 2015*

EXPERIENCE

Software Engineer — May 2022 – Present
Faria Education Group — *Taipei, Taiwan*
- Full-stack software development using ruby on rails and Vue.js.
- New features development based on the provided specifications.
- Maintaining the existing applications (bug fixes, migration to new Rails versions, UI refresh).
- Interacting with the other teams (within the company and external) regarding the applications integration and API.

Senior Software Engineer — Jul 2021 – May 2022
TpiSoftware — *Hsinchu, Taiwan*
- Performing coding assignments.
- Creating and implementing design plans.
- Delegating tasks to team members.
- Keeping up-to-date with industry trends and technology developments.

Frontend Developer — Aug 2019 – Jul 2021
TpiSoftware — *Hsinchu, Taiwan*
- Implemented UI/UX design wireframes into functional code, creating the visual elements of the application
- Collaborated closely with UI/UX designers to ensure seamless integration between design and technical implementation
- Developed reusable code and components for user interfaces, ensuring their technical feasibility
- Optimized application performance for maximum speed and scalability while working with team members and stakeholders

Mathematics and Physics Teacher — Mar 2016 – Dec 2016
Mbokojweni High School — *Lomahasha, Swaziland*
- Taught Mathematics and Physics to high school students, ensuring curriculum alignment with educational standards
- Developed lesson plans, assignments, and assessments to gauge student understanding and promote academic progress
- Incorporated a variety of teaching methods, including lectures, practical demonstrations, and interactive problem-solving sessions
- Provided individual support to students needing additional help, improving overall performance in challenging subjects
- Coordinated with colleagues to ensure a well-rounded education experience and participated in extracurricular school activities

TECHNICAL SKILLS

Languages: Javascript, Typescript, Ruby, Python, HTML/CSS
Frameworks: Next.js, LangChain, React.js, Vue.js, Node.js, Ruby on Rails, Tailwind CSS
Developer Tools: Git, Google Cloud Platform, Amazon Web Services, VS Code
Libraries: Prisma, Pandas, NumPy, D3.js, Webpack, Socket.IO, Redux, Vuex, Pinia, tRPC

PROJECTS

The Marking App | *Next.js, Redux, ContextApi, OpenAIEmbeddings, LangChain, Prisma, tRPC* Apr 2024 – Present
https://themarkingapp.co.za

- Collaborated with a team to develop a marking app aimed at automating grading for schools, reducing teacher administrative workload
- Developed features including Auto-Marking, Formal Tests, Assignments, Practice Tests, and Interactive Workbooks for teachers and students
- Implemented AI Marking for handwritten tests using OCR, integrated real-time reports and analytics for school administrators
- Designed multi-user portals for Super Admin, School Admin, Teacher, and Student, offering various functionalities like attendance tracking and communication tools
- Utilized the T3 Stack: TypeScript for type safety, Next.js for server-side rendering and routing, tRPC for type-safe API calls, and Prisma for database management
- Leveraged Context API and Redux for state management, alongside OpenAI Embeddings and LangChain for AI-driven features

TeaZeap - Jobs' Listing Website | *Vue.js, Vuex, Contentful, Netlify* Oct 2020 – Present
https://www.teazeap.com

- Built a teaching jobs' listing website for schools and teaching agents in Taiwan
- Enabled teaching agents to post jobs available for schools in Taiwan and manage them
- Allowed teachers to view and apply for jobs they were interested in
- Utilized Vue.js for frontend development and Contentful for content management, deployed using Netlify

Verifacts Academy | *React, React Hooks, Formik, DataGrid* Oct 2021 – Mar 2022
https://honda.dev.quasidea.com

- Collaborated with a team of 6 to develop a learning management system with cloud-based API and multiple web-based applications
- Developed the admin portal using React and React-Bootstrap, enabling program, course, curriculum, technician, and shop management
- Implemented features for e-learning, supporting both in-person and webinar courses, including scheduling and managing live class slots
- Utilized Formik for form handling and DataGrid for data presentation

Chatbot UI - DBS Bank | *React, Redux, Redux Thunk, React Hooks* Aug 2019 – Feb 2020
https://www.dbs.com.sg

- Collaborated with a team of 4 to develop a Chatbot UI for DBS Singapore, focusing on responsive web design
- Developed Live chat and File Upload components using React, enabling customer interaction with the DBS Chatbot
- Implemented state management with react-redux and used Redux Thunk for asynchronous communication with the Chatbot API
- Ensured seamless integration and user experience by adhering to predefined UI layouts

Archive Management System | *JavaScript, Vue.js, Vuetify, Vue Router, Vuex, Node.js* Aug 2019 – Feb 2020
https://www.archives.gov.tw

- Collaborated with a team of 20 engineers to develop an integrated file management and information system for the National Development Commission of Taiwan
- Developed a one-stop file service model handling data flow, big data search engines, file catalog management, publication, and national file preservation
- Built several components including the FAQ page, FAQ management, document uploading, and pre-reviewing
- Utilized Vue.js with Vuetify for frontend, Vue Router for navigation, Vuex for state management, and Node.js for backend