

# Muzi Gondwe

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## EDUCATION

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### National Tsing Hua University

*Masters of Science in Computer Science*

Hsinchu, Taiwan

Aug 2017 – May 2019

### University of Swaziland

*Bachelor of Engineering in Electrical and Electronic Engineering*

Kwaluseni, Swaziland

Aug 2010 – May 2015

## EXPERIENCE

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### Software Engineer — Keybridge CRM

May 2022 – Present

*Faria Education Group*

*Taipei, Taiwan*

- Worked on a large-scale Ruby on Rails 6, React.js and Vue.js-based internal CRM, optimizing backend performance with Redis, Sidekiq, and Memcached caching layers.
- Maintained and expanded CRM modules using an extensive gem ecosystem — including Devise and CanCanCan (authentication/authorization), Elasticsearch suite (search), WickedPDF (file/PDF management), and AWS SDK integrations for EC2 and S3 bucket.
- Refactored legacy code and migrated dependencies across gem and frontend stacks, leading the migration from Vue 2 to Vue 3 with the Composition API and TypeScript support; transitioned the UI framework from Element UI to Element Plus
- Enhanced data and API layers with ActiveModelSerializers, JWT, and REST clients, implementing integrations with third-party services including NetSuite and Salesforce for secure interoperability across Faria platforms.
- Led performance profiling and QA automation using NewRelic, Airbrake and RSpec suite delivering measurable gains in reliability, coverage, and response time.

### Senior Software Engineer

Jul 2021 – May 2022

*TpiSoftware*

*Hsinchu, Taiwan*

- Led a team of 4–6 engineers, handling front-end development, sprint planning, and code reviews.
- Built scalable front-end solutions with React, Redux, and TypeScript using reusable components and hooks.
- Delivered key features for DBS Bank and Verifacts Academy, integrating APIs, auth, and responsive UIs.
- Managed CI/CD pipelines with Git, Jenkins, and Docker to streamline deployments and collaboration.

### 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 with lessons, assignments, and assessments aligned to curriculum standards
- Applied varied teaching methods and provided individual support to enhance student performance
- Collaborated with staff and joined extracurricular activities to enrich the learning environment

## TECHNICAL SKILLS

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**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

## REFERENCES

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### Michael Flynn

Product Manager — CRM, Faria Education Group

[michael.flynn@fariaedu.com](mailto:michael.flynn@fariaedu.com)

### Adam Morris

Product Director — Integrations, Faria Education Group

[adam.morris@fariaedu.com](mailto:adam.morris@fariaedu.com)

## PROJECTS

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### The Marking App | *React.js, Redux, Context API, Node.js (Express), Python (Flask)* <https://themarkingapp.co.za>

Apr 2024 – Present

- \* Built an AI-powered marking platform that automates grading and reduces teacher administrative workload
- \* **Engineered real-time chat functionality** between teachers and parents, establishing **student-specific group chat rooms** using the **Socket.io** library.
- \* Developed a full-stack architecture with a Node.js (Express) backend for API management and AI model integration using the OpenAI SDK
- \* Built a dedicated Python (Flask) microservice for OCR processing and PDF annotations leveraging Amazon Textract for accurate handwriting extraction
- \* Implemented key features including Auto-Marking, Formal Tests, Assignments, Practice Tests, and Interactive Workbooks for teachers and students
- \* Designed and deployed a role-based multi-portal system (Super Admin, School Admin, Teacher, Student) with integrated attendance, communication, and reporting tools
- \* **More tools used:, OpenAI SDK, Amazon Textract, Socket.io**

### Phiwayinkosi Foundation Website | *Next.js, Node.js, Netlify* <https://phiwayinkosifoundation.org/>

Jan 2025 – Present

- \* Developed and deployed the official website for the Phiwayinkosi Foundation to promote its mission, initiatives, and community projects
- \* Implemented a backend using Next.js API routes to securely process donation and pledge form submissions
- \* Enabled flexible pledge options (one-time, monthly, quarterly) with integrated email acknowledgments for donors
- \* Built content sections for News, Gallery, About, FAQs, and Contact, ensuring responsive layout and fast load performance
- \* Deployed on Netlify with environment-based configuration for API endpoints and optimized image delivery

### TeaZeap - Jobs' Listing Website | *Vue.js, Vuex, Contentful, Netlify* <https://www.teazeap.com>

Oct 2020 – Present

- \* 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* <https://honda.dev.quasidea.com>

Oct 2021 – Mar 2022

- \* 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* <https://www.dbs.com.sg>

Aug 2019 – Feb 2020

- \* 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