

GAVIN GIDEON ALGIN



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<https://www.github.com/gavinalgin> ~ 160 Mohlala Str., Dalmada AH, Polokwane, 0700

SOFTWARE ENGINEER

As a software engineer with a solid foundation in Mobile, AI Chat, and web applications, I write code and craft experiences, optimize performance, and ensure the highest quality in every project. My capacity to work collaboratively, communicate complex ideas clearly, and innovate within teams makes me a vital contributor to driving success, streamlining processes, and transforming ideas into reality. I am a visionary problem-solver, combining analytical thinking with creativity to build solutions that impact organizations. I am proficient in networks, SDKs, and native frameworks such as Django, Vite, React native expo, Next.js, etc.

KEY COMPETENCIES

Technical development of mobile, chatbot, and web applications

Data virtualization, processing, and model training

Report writing and presenting, Critical thinking skills

Excellent verbal communication skills

Strong interpersonal skills, Proactive and self-motivated, Exceptional organizational skills, Experience leadership skills and commitment

PROFESSIONAL EXPERIENCE

Expandly

Oct 2023 - Present

Full Stack Web developer

Developed and implemented web services to local businesses, so I built a small tech start-up that provides mobile and web services to local businesses. I am responsible for the development, testing, maintenance, and implementation of those systems.

- Developed a responsive web application using React.js and Tailwindcss, improving user engagement.
- Collaborate with a team of 3 to implement a NoSQL cloud database using Firebase, ensuring seamless data communication and collection.
- I participated in code reviews and followed methodologies to improve code quality and development efficiency.
- Deployed the application on Netlify hosting.

Urize

June 2024 - Dec 2024

Project Developer Assistant

Assisted with the frontend and backend devOps of business projects, ensuring adherence to project timelines and deliverables.

- Understood how code was currently written, tested, deployed, and monitored in their team/company.
- Developed a refreshed UI frontend, with SEO optimizations, Animations in Framer Motion and GSAP, and Web responsiveness across multiple devices.
- Deepened their understanding of Git (branching strategies, pull requests, merging, rebasing).
- Ensured all web application code was under version control and analyzed failed builds or deployments to understand root causes.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Information Technology

Majors: BSc Information Technology, Richfield

Graduate Institute of Technology, Year: 2025

Bachelor Matric Completion

Matric Completion Year:

2022

Myngeneogen English Private School

Beginner Cyber Security Short Course Badges

CISCO.

Beginner Data Science Short Course Badges

CISCO.

Certificate of Achievement

2024 Top IT Student

SKILLS & OTHER

Skills

HTML, CSS, JavaScript, PHP, Python, Typescript, Next.js, Vite, Node.js, C++, C#, MySQL, SQLite, Firebase, MySQL, Supabase, Express.js, React Native expo, Java, Django, NetworksComptia, Github CI/CD, GitLab, Postman, Zustard, Flutter, Docker, Springboot, .NET Desktop app, RESTFULAPI, FASTAPI, Figma, WonderMockkit

Community Volunteer

Limpopo Seshego Hackathon

2024 Richfield Hackathon 2023 3rd

Place Winner

PERSONAL PROJECTS

TaskCo

- The project involved building a browser extension focused on enhancing individual productivity through anonymous task management.
- Designed and implemented a system that allowed users to interact with the extension without creating identifiable accounts.
- Used local storage and hashed session identifiers to ensure persistent task and note data while maintaining anonymity.
- Built an interactive drag-and-drop to-do list using JavaScript and libraries like Sortable.js.
- Developed a smart referencing tool using AI to extract context from notes or tasks by implementing the OpenAI model.

Simple Chatbot

- Using Python and the Django framework, I built a small chatbot to enable lightweight and simple natural, human-like conversation.
- Developed prompt engineering techniques to tailor the bot's responses based on user context, tone, or domain (e.g., casual, professional, support).
- Implemented fallback handling for unrecognized queries using semantic similarity and knowledge base lookup.
- Created a custom knowledge base that the chatbot could reference for domain-specific queries (e.g., company info, product details).
- Built an admin-friendly backend system to add/edit predefined responses and training phrases without needing to redeploy the app.
- Developed an intuitive, responsive chatbot UI (web-based or embedded).
- Ensured a mobile-friendly interface with smooth interactions.
- Stored minimal user data, aligned with privacy-first principles.
- Implemented anonymous chat modes with temporary session identifiers and auto-expiration.

N/B: all other projects you can find in my GitHub and LinkedIn accounts.

REFERENCES

Secondary Education

Mr S. Pitse,
School Principal
reception@mepsschool.co.za

INTERESTS

Ethical hacking & Cybersecurity AI
Engineering & Data Science

LANGUAGES

Afrikaans
English
Sepedi