

# Wacebula Gaba

## Curriculum Vitae

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### Education

- 2018–2022 **BSc Engineering (Electrical)**, *University of the Witwatersrand*, Johannesburg, South Africa, Distinction
- Specialisation in Electronics and Computer Engineering
  - Final-year project: Real-time power monitoring system using IoT and full-stack web dashboard
  - Relevant coursework: Embedded Systems, Software Engineering, Data Structures & Algorithms, Digital Signal Processing, Power Systems

### Professional Experience

- 2024–Present **Senior Full-Stack Developer**, *Acme Tech Solutions*, Johannesburg (Hybrid)  
Leading development of cloud-native microservices platform using React, Node.js, and AWS.
- Architected and implemented real-time data visualisation dashboard (React + TypeScript + WebSocket)
  - Designed and deployed RESTful APIs and GraphQL services (Node.js/Express, NestJS)
  - Implemented CI/CD pipelines with GitHub Actions and Docker
  - Mentored junior developers and conducted code reviews
- 2023–2024 **Full-Stack Developer**, *FinTech Innovations (Pty) Ltd*, Sandton, South Africa  
Developed and maintained high-traffic financial web applications.
- Built responsive frontends with React, Redux, and Material-UI
  - Developed secure backend services using Node.js, PostgreSQL, and JWT authentication
  - Integrated third-party APIs (banking, payment gateways)
  - Reduced page load time by 40% through performance optimisation
- 2022–2023 **Full-Stack Development Learnership**, *MICT SETA / CodeSpace Academy*, Cape Town (Remote)  
12-month structured learnership combining training and workplace experience.
- Completed intensive full-stack bootcamp (HTML, CSS, JavaScript, React, Node.js, MongoDB)
  - Placed at BetaSoft as junior developer for 8 months
  - Built and deployed 5+ full-stack projects (e.g., e-commerce platform, task management app)
  - Achieved NQF Level 5 certification in Systems Development

2021–2022 **Junior Developer (Part-time)**, *Wits Digital Arts Lab*, University of the Witwatersrand

Developed internal tools and IoT dashboards during final year.

- Created web-based monitoring system for solar microgrid project (Vue.js + Python Flask)
- Integrated ESP32 microcontrollers with cloud backend

## Technical Skills

Languages JavaScript/TypeScript, Python, C/C++, Java, SQL

Frontend React, Redux, Next.js, Vue.js, HTML5, CSS3, Tailwind, Material-UI

Backend Node.js, Express, NestJS, FastAPI, Django, PostgreSQL, MongoDB

Cloud & DevOps AWS (EC2, S3, Lambda, RDS), Docker, GitHub Actions, Vercel, Linux

Tools Git, Postman, Jira, Figma, VS Code

## Selected Projects

GridMonitor Open-source real-time electricity usage tracker  
(2023)

*React + Node.js +  
MQTT + InfluxDB*  
[github.com/johndoe/gridmonitor](https://github.com/johndoe/gridmonitor)

TaskFlow (2022) Full-stack project management tool with Kanban boards  
*Next.js + Prisma +  
PostgreSQL*  
[taskflow.johndoe.dev](https://taskflow.johndoe.dev)

IoT Home Raspberry Pi + ESP32 home automation system with web dashboard  
Automation (2021)

## Certifications

2024 AWS Certified Developer – Associate

2023 MICT SETA National Certificate: Systems Development (NQF 5)

2022 freeCodeCamp Responsive Web Design & JavaScript Algorithms

## Interests

Open-source contributor, IoT & embedded systems, renewable energy tech,  
running, chess