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₩ebPage-portfolio

Education

University of the Witwatersrand, Johannesburg, RSA – (FinalYear)

NFQ level 8 - Bachelor of Science in Electrical Engineering

• Majors: Software Development, Cloud Computing in Data Science, High-Voltage Engineering, Power Systems, Electronics, Project Management Engineering Design and Prototyping

Tshimbupfe Secondary School - Completed (2017)

Matric/NSC - Grade 12

certificate

• Majors: Mathematics, Physical Sciences, Geography and Life Sciences

Technical Skills

Programming: Python3, JavaScript(ES6), C++, HTML5, CSS3, SQL, Assembly, Git, Powershell, Windows Cmd, VS Code, LaTeX

Web Technologies: IBM, deploying Apps on Azure, Agile SDLC, CI/CD, Scrum, GitHub, WebSockets,

Design Tools: Figma, Adobe, Flutter, Phopotopea,

Front End: knowledge of Developing with front-end development languages and tools such as HTML5, CSS3, JavaScript(ES6+), React and Bootstrap

Back End: basic skilled with Programming applications using back-end languages and frameworks: Express, Node.js, Python3, and Django Engineering: LTSpice, MATLAB, FEMM, Oscilloscope, PLC Arduino Programming,

Technologies/Frameworks: Docker, Kubernetes, GitHub Actions, Windows OS Linux, Ubuntu,

Computer: basic skills of working with MS Word, Excel, PowerPoint, Access, Outlook, Visio, Project, Jira,

Experience

Hlogirati (Ltd) Pty Consulting and Training Services - Electrical Engineer Intern, (Nov., 2022 - Feb., 2023)

• Health and Safety practices: Trained in hazard identification, risk assessment, and safety protocols

- Technical Projects and Engineering Tasks: Collaborated with fellow engineering interns to design network systems, select transformer sizes, perform three phase network analysis, and conduct fault level calculations for residential power distribution projects.
- Technical Installations and Maintenance: Assisted technicians in installing industrial motors, air conditioning systems, switchgear components, and programmable remote controls.

CZ Electronics (Pty) Ltd - Junior Engineering Technician (Oct 2019 - March 2020)

- Technical Support and Production Tasks: Included and not limited to Providing clerical and technical support to senior engineers by troubleshooting manufacturing systems, testing equipment, editing technical documents, record and update production statistics.
- Inspection, Testing, and Maintenance: Testing and diagnosing faults for DSTV and Smart TV end product units, interpreted PCB diagrams, soldered faulty components, and collaborating with senior engineer ro configure hardware/software for production and testing equipment.
- Health and Safety Compliance: conducted routine inspections of tools and equipment, and participated in meetings to address technical issues and implement corrective actions for production challenges.

Training and Competency Courses

IBM - Full Stack Software, (Feb., 2024 - July, 2024)

certificate

- Learning to build cloud native applications using Docker, Kubernetes, OpenShift, and Istio.
- Using Django ORM to build object-oriented RDMS using IBM Db2, and compose SQL queries to insert, select, update, and delete data
- Creating, and deploying microservices applications using Docker containers and serverless technology IBM Code Engine.
- Learn creating REST API endpoints and invoke them using cURL and Postman; Use SwaggerUI to document and test APIs.
- learning to create and deploy AI-based applications onto a web server using IBM Watson AI Libraries and Flask.
- Creating Python modules, run unit tests, and package applications while ensuring the PEP8 coding best practices using Pylint.
- Creating server-side applications using Node.js and Express frameworks.
- learning to develop interactive user interfaces (UIs) and web applications using JavaScript technologies including React, JSX, and ES6.

Artificial Intelligence Augmented Professional Development Skills, (Feb. 2024 - July, 2024)

certificate

- Learn to use AI tools like Adobe and Runaway to design presentations, generate graphics, and enhance engagement through creative solutions
- Computer Proficiency: learn intermediate skills in Excel, Outlook, PowerPoint, and managing emails effectively.
- learn about leveraging AI to streamline workflows, improve collaboration, and automate routine tasks.
- learn about enhancing collaboration and leadership skills through AI-assisted project management and team coordination

References

Mashavhela T.J High School principal Tshimbupfe Secondary Phone: +27-82-763-8685 Phila Nzimande HR admin Hlogirati Pty Ltd Phone: +27-81-051-4337 Nkululeko Ngwenya Supervisor CZ Electronics Pty Ltd Phone: +27-84-304-1242