

MPETHA S. MOTAUNG

SOFTWARE ENGINEER

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SUMMARY

Innovative and results-driven Software Engineer with a proven track record of success in full-stack development, digital services, and software testing. Proficient in a wide range of programming languages and technologies, including C#, Python, JavaScript, and cloud computing platforms. Experienced in leading cross-functional teams, driving process improvements, and delivering high-quality solutions. Seeking to leverage expertise in software engineering to contribute to the success of a dynamic organization.

SKILLS

Tech Stack(s):

- MongoDB, Express, React, Node (MERN)
- Python, Django, PostgreSQL, Django REST framework

Experienced with:

Cloud Computing, Google Cloud Platform, Amazon Web Services (AWS), CI/CD, UX/UI, Unit Testing, OOP, DB Management, SoapUI, VS Code, Docker, SaaS, C#, Python, Django, Java, C++, JavaScript, HTML, CSS, Node.js, Express, React, NoSQL, MySQL, SQLite3, Git & Git Version Control, jQuery, MongoDB, REST API, .Net

Expertise in:

Digital Services, Front-end Frameworks, Back-end Frameworks, Full-stack Software Development

EXPERIENCE

Software Testing Engineer

Huawei Technologies South Africa

10/2021 – 11/2023

- Conducted comprehensive software testing procedures to ensure product quality and reliability.
- Developed and executed test cases, identifying and documenting software defects.
- Collaborated with development teams to troubleshoot and resolve issues.

- Technologies used: Automated testing frameworks (such as Selenium), Bug tracking tools (e.g., JIRA), Test management tools, Soap UI, Postman.

Technical Engineer

Huawei Technologies South Africa

- Orchestrated the delivery of customer infrastructure and software solutions, leading to heightened customer revenue and satisfaction.
- Technologies used: Cloud Computing, AWS, Google Cloud Platform, CI/CD, Docker.

Assistant Network Engineer

Huawei Technologies South Africa

- Assisted in the setup and maintenance of network infrastructure.
- Collaborated with senior engineers to troubleshoot network issues.
- Technologies used: Networking protocols, Cisco devices.

Fintech Software Engineer

Huawei Technologies South Africa

- Developed software solutions tailored for fintech applications.
- Implemented secure payment gateways and transaction protocols.
- Technologies used: Python, REST API, SQL databases.

Digital Services Specialist

Huawei Technologies South Africa

- Led the design of user interfaces (UI) for prominent companies' digital services.
- Enhanced user experience resulting in a 60% increase in user onboarding and retention.
- Technologies used: HTML, CSS, JavaScript, React, REST API, Adobe Illustrator, Adobe XD.

Software Engineer

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01/2021 – 09/2021

- Developed a payment gateway for an independent merchant company.
- Engineered a web application for inventory and employee profile management.
- Designed a website with order and user profile management functionalities for a restaurant.
- Technologies used: Python, Django, HTML, CSS, JavaScript, SQL databases, Adobe Illustrator, Bootstrap.

EDUCATION

Bachelor of Computer Science

Wuhan University, China

09/2016 – 07/2020

Relevant coursework: Advanced Mathematics, Computer Systems, Information Systems, OOP (Java), Discrete Mathematics, Probability & Statistics, Data Structures & Algorithms, Advanced Physics, Computer Organization, Computer Networks, Operating Systems, Human-Computer Interaction, Database Systems, Compiler, Artificial Intelligence, Windows, E-Commerce, Software Testing, Cyber Security, UML and Software Modeling, Web Applications & Development, Digital Image Processing, Linux & Applications, XML & Applications, Big Data and Analysis, Cloud Computing.

Certificate in Chinese Language Proficiency (HSK4)

Wuyi University, China

08/2014 – 08/2016

Relevant coursework: Comprehensive, Speaking, and Listening.

National Senior Certificate (NSC)

Brebner High School, SA

01/2010 – 11/2012

Relevant coursework: Majored in Science

CERTIFICATES

- **Responsive Web Design Certification**
Free Code Camp (<https://www.freecodecamp.org/learn>)
Relevant Coursework: HTML & CSS
(in progress): https://github.com/mpethamotaung/Responsive_Web_Design
- **100 Days of Code: The Complete Python Pro Bootcamp**
Udemy(<https://www.udemy.com/course/100-days-of-code>)
Relevant Coursework: Data Science, Machine Learning, GUI, Desktop Applications, Automation, Games, Apps, Web Development, Selenium, Beautiful Soup, Requests, Flask, APIs, Pandas, NumPy, Scikit Learn, Plotly, and Matplotlib.
(in progress): https://github.com/mpethamotaung/Mastering_Python

PROJECTS

- ❖ **PROP-Revs:** Developed a blockchain-based application focusing on Property Database & Fraud Prevention.
 - **Link:** (Property of Wuhan University)
- ❖ **Machine Learning:** Created a Streamlit & Python-based application for User Behavior & Sentiment Analysis.
 - **Link:** (Property of Wuhan University)
- ❖ **Personal Portfolio (to be updated):** Created a personal portfolio website through Github's free website function.
 - **Link:** <https://mpethamotaung.github.io/>
 - **Technologies:** HTML, CSS, Javascript
- ❖ **Yeats Food Service Website:** Created a mock food service website, designed to showcase various food items with a user-friendly UI.
 - **Link:** <https://github.com/mpethamotaung/yeats>
 - **Technologies:** HTML, CSS
- ❖ **WallBank Banking System:** Created a bank simulation system with functionalities such as account management, transactions, and balance inquiries.
 - **Link:** <https://github.com/mpethamotaung/WallBank-BankingSystem>
 - **Technologies:** Java
- ❖ **Financial Statistics:** Created a financial statistics web application that takes user input in a form, and an excel file. The excel file contains income and expenditure of a user and this excel file is used to plot a temporal graph for data analysis
 - **Link:** <https://github.com/mpethamotaung/DataSciences>
 - **Technologies:** Python & HTML
- ❖ **Bright Institution Online Tutoring Platform (in progress):** Creating an online platform tutoring platform to facilitate tutoring sessions between tutors and students.
 - **Link:** https://github.com/mpethamotaung/Bright_inst
 - **Technologies:** Python, Django Rest Framework, HTML, CSS ⇄ MongoDB, Express, React, Node