**CURRICULUM VITAE**
**FOR**
**HILLARY MANGENA**

*No. 9 Bloekomdraai, Terenure, Kempton Park West, Johannesburg, 1619*
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## PERSONAL DETAILS:

Date of Birth:          11 August 1991
Passport Number:        DN465 984
Gender:                 Male

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## ACADEMIC QUALIFICATIONS

1. Google IT Support Professional Certificate, a 5-course specialisation offered by Google, May 2018 – January 2019
2. Data Science with Python, Professional Certificate with DataCamp Inc., January 2017 – March 2018
3. Completed Sololearn Online Courses in HTML5, CSS3, Python3 and SQL
4. Completed Django 2 Courses on Udemy
5. Bachelor of Science Honours Degree in Electrical Engineering, University of Zimbabwe, August 2011 – June 2015

6. Financial Regulation in Emerging Markets and the Rise of Fintech Companies, Honours Certificate, University of Cape Town
7. Smart Contracts, Certificate, State University of New York

*Currently Studying towards a* **Professional Certificate in Cryptography** *with Stanford University*

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## SKILLS AND ATTRIBUTES

Software Engineering and Data Science

- Python Programming
- HTML, CSS, SQL, Bootstrap
- Full Stack Web Development with Django 2
- GIT for version control and deployment, gunicorn and Nginx
- Basic understanding of Javascript
- Databases: SQLite and Postgresql
- APIs and manipulation of JSON objects
- CRUD
- AJAX

- Jupyter Notebook
- Importing data from various sources including .csv, .txt and html files, excel spreadsheets and SQLite and Postgres dBs
- Data Wrangling and Transformation (Pandas, Dataframes and NumPy arrays)
- Data Visualisation using matplotlib and seaborn
- Exploratory Data Analysis (summary and hacker statics, binomial, poisson and exponential distributions)
- Machine Learning with scikit-learn (kNN, Linear Regression, Random Forest, Isomap, PCA, K-Means Clustering, etc)

IT Support and Electronics

- Qualitative understanding of Windows and Linux Operating Systems
- Installing, uninstalling, and configuring software, Configuring disk partitions
- Knowledge of configuring emails, security, file systems and printing services
- Knowledge of computer hardware, including assembling a computer from scratch
- Electronic Circuit Design, with particular proficiency in Arduino and the ATmega micro-controller
- Working knowledge of Active Directory and OpenLDAP
- Good understanding of VPNs, Firewalls, ACLs, Kerberos, Wireshark and tcpdump
- Bash Scripting

Networking

- TCP/IP Protocol Suite and & the 7 Layer OSI Model (UDP, SMTP, POP3, IMAP4, SSH, FTP, ARP, HTTPS, STP, etc)
- Good understanding of DNS and DHCP, Cloud Computing, Virtualisation, Optimisation and Fault Tolerance
- LAN set up, Network Topologies, Routing and Switching
- Cabling and wiring standards, CAT 5/6, RJ-11/45, 568A/B, straight through and cross-over

- Kwese TV Accredited Satellite Dish Installer
- IP Addressing and Subnetting
- Internet Access Technologies (DSL, ADSL, Satellite, etc)

Qualitative Understanding of Electrical Power Systems

Sound knowledge of Finance, basic processing of cash-book and cash flow analysis

Good appreciation of emerging technologies including IoT systems design, Blockchain Technology and Ethereum Smart Contracts

Teamwork, loyalty, good communication skills

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## WORK EXPERIENCE

1. **Junior Wetrok Technician**
   **Prime Cleaning Suppliers (Gauteng)**
   **May 2018 – present**
   Duties and Responsibilities
   Troubleshooting and performing repairs on all Wetrok Machines (Scrubber Driers, Single Disc Machines and Vacuum Cleaners)
   Training clients how to properly operate Wetrok Machines.
   Identifying stock shortages and co-ordinating procurement processes.
   Setting up and maintaining a Machine Tracking System from the point a machine is ordered or brought in for repair, until it leaves the workshop.
   Preparation of quotations and invoices.

2. **Post-Graduate Trainee: Electrical Engineering**
   **Foltron Construction, Harare, Zimbabwe**
   **October 2015 - April 2017**
   Duties and Responsibilities
   Installation of medium voltage power distribution lines.
   Maintenance of primary and secondary substations.
   Reconstruction of secondary substations.
   Provided technical support in the resolution of complex power system concerns.
   Assisted in the generation of site reports and setting task priorities.

3. **Freelance Web Developer**
   **June 2017 – present**
   Duties and Responsibilities
   Developing and maintaining websites for small construction companies.