**Nicholas Biiy Bwalley**

**A.I Engineer & Software Developer**

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**SUMMARY**

I am a Full Stack Software Engineer with expertise in the MERN stack (MongoDB, Express.js, React.js, Node.js) and advanced proficiency in Python. Currently, I am advancing my career in Artificial Intelligence, specializing in Large Language Models (LLMs) and Generative AI to create innovative solutions that automate business processes and enhance operational efficiency. With a proven ability to design and build modern web applications, I excel in delivering impactful AI-driven solutions. I possess good problem-solving skills, and a skilled typist averaging (120 WPM) enabling me to complete tasks on time. I thrive in collaborative environments and use GitHub.

**WORK EXPERIENCE**

**Exchange Program: *(August 2024 – present)***

***KTH Royal Institute of Technology, Stockholm Sweden***

* Sustainable Urban Planning and Sustainable Development.
* Advanced Interaction Programming.
* Internet Marketing

**Network Engineer *(January 2024 – June 2024)***

***Turbo G and K Networks Limited, Nairobi, Kenya***

* Designed and installed fast, reliable internet services utilizing fiber optic cabling, increasing network efficiency by 30%.
* Developed and launched a modern, SEO-optimized website, resulting in a 40% improvement in search engine rankings and user engagement.
* Restructured network configurations from routers to splitters through ODFs, enhancing connection speed to sky-rocket by 25% for clients.
* Troubleshot and resolved technical network issues, ensuring 99.9% service uptime for users.

**Cybersecurity Analyst *(September 2023 – December 2023)***

***Senselearner Technologies Pvt***

* Conducted detailed network scanning and vulnerability analysis, identifying and mitigating potential threats, reducing security risks by 20%.
* Executed penetration testing on web applications, delivering comprehensive reports with actionable insights for strengthening system defenses.
* Implemented exploitation and post-exploitation techniques, improving cybersecurity protocols by 15%.
* Improved reconnaissance processes, shortening analysis time by 10%.

**EDUCATION**

**Strathmore University: (Kenya, Nairobi)**

* **Bachelor’s in Business Information Technology** (September 2021 – June 2024)  
  Grade: First Class Honors GPA: 3.8/4.0
* **Diploma in Business Information Technology** (May 2019 – September 2021)  
  Grade: Merit

**SKILLS**

* **Front-End Technologies:** React, Redux, Tailwind CSS, HTML, CSS, JS, Bootstrap
* **Back-End Technologies:** Node.js, MongoDB, Express.js
* **AI Technologies :** Python, NumPy, Matplotlib, Pandas, LangChain, Vector Databases, LLMs, NLP

**LANGUAGES**

* English: Native
* Swahili: Native
* French: Conversational

**ACHIEVEMENTS**

* Dean’s List Award (2021–2022): Recognized for exemplary academic performance.
* Dean’s List Award (2022–2023): Honored for maintaining outstanding grades.
* 3rd Place: Weightlifting Competition, Strathmore Sports Day (2023).

**HOBBIES & INTERESTS**

* Fitness Coach.
* Swimmer.
* Table Tennis.
* Magician & Illusionist.