

Nicholas Biiy Bwalley

Software Engineer | A.I Engineer

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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 Programming Language. Currently, I am advancing my career in Artificial Intelligence (A.I), focusing on Large Language Models (LLMs) and Generative AI to develop innovative solutions that automate business processes and repetitive tasks, driving operational efficiency and scalability. With a proven track record of designing and building modern, responsive web applications, I excel at delivering impactful AI-driven solutions tailored to the needs of specific SMEs. My strong problem-solving skills, clear and effective communication, and exceptional typing speed (averaging 120 WPM) enable me to complete complex tasks efficiently and on time. I thrive in collaborative environments, leveraging tools like GitHub for team projects and version control. **Above is the link to my GitHub, showcasing the projects I have previously worked on, please feel free to peruse.**

WORK EXPERIENCE

Exchange Program: *(August 2024 – January 2025)*

KTH Royal Institute of Technology, (Stockholm, Sweden)

- **Sustainable Urban Planning and Development:** Developed AI and machine learning-based strategies to improve mobility and transportation in Viksjö, Järfälla Municipality, optimizing resource allocation for sustainable urban growth.
- **Advanced Interaction Programming:** Designed and implemented a fully functional e-commerce platform, *Stora Ecom*, showcasing expertise in modern web development and user experience design.
- **Internet Marketing:** Conducted in-depth research on Spotify's streaming service, proposing innovative revenue models to enhance profitability and market competitiveness.

Network Engineer *(January 2024 – June 2024)*

Internship: *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.
- Troubleshoot and resolved technical network issues, ensuring 99.9% service uptime for users.

Cybersecurity Analyst (*September 2023 – December 2023*)

Internship: Senselearner Technologies Pvt, (Dehradun, India)

- Conducted detailed network scanning and vulnerability assessments, identifying and mitigating potential security threats to enhance system resilience.
- Performed penetration testing on web applications, delivering comprehensive reports with actionable insights to strengthen defenses and address vulnerabilities.
- Implemented advanced exploitation and post-exploitation techniques to assess and improve system security measures.
- Conducted reconnaissance testing on company test websites, ensuring robust security measures and identifying areas for improvement..

EDUCATION

Strathmore University: (Nairobi, Kenya)

- **Bachelors in Business Information Technology** (September 2021 – June 2024)
Grade: **First Class Honours** GPA: 3.8/4.0
- **Diploma in Business Information Technology** (May 2019 – September 2021)
Grade: **Merit**

SKILLS

- **Programming Languages:** Python, Java, C++, PHP, JavaScript.
- **Front-End Technologies:** ReactJS, Redux, Tailwind CSS, HTML, CSS, Bootstrap
- **Back-End Technologies:** NodeJS, ExpressJS, Laravel, Postman,
- **Databases:** MongoDB, MySQL
- **AI Technologies :** Python, LangChain, Vector Databases, LLMs, NLP

LANGUAGES

- English: Native
- Swahili: Native
- French: Fluent
- Swedish: Beginner

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: <https://www.youtube.com/@NickBwalley>
- Swimmer Pro
- Table Tennis Pro.
- 8 Ball Pool.
- Sleight of Hand & Illusions.
- Rubik's Cube (Speed Cuber)