BM

BONIFACE KAMAU MUGO

Bonifacemugo347@gmail.com / +254 -113 435 498

SUMMARY

Results-driven and highly motivated Computer Science student with a strong foundation in software development, data analysis, and system optimization. Possessing a proven track record of contributing to innovative tech projects, I am adept at solving complex problems, writing efficient code, and applying best practices in software development. With hands-on experience in programming languages such as Python, Java, and JavaScript, and a keen understanding of web development, database management, and cybersecurity, I am committed to delivering impactful results. My exceptional analytical and problem-solving abilities, combined with excellent communication skills, allow me to collaborate effectively with cross-functional teams and stakeholders. I thrive in dynamic environments and am driven by a passion for continuous learning, always staying up to date with industry trends and emerging technologies. I am eager to apply my technical expertise and strategic thinking to contribute to innovative projects and gain valuable experience in the tech industry. My ability to adapt quickly and deliver high-quality solutions positions me as a valuable asset to any organization.

SKILLS

- **Software Development & Programming**: Proficient in Python, Java, JavaScript, C++, and other programming languages for developing scalable applications.

- **Web Development**: Experienced in building dynamic websites using HTML, CSS, JavaScript, and frameworks like React and Node.js.

- **Database Management**: Skilled in designing and managing databases using SQL and NoSQL systems like MySQL.

- **System Analysis & Design**: Proficient in analyzing user needs, designing software solutions, and implementing effective systems.

- **Algorithm Design & Optimization**: Adept at creating efficient algorithms to solve complex problems and improve system performance.

- **Cybersecurity Fundamentals**: Knowledge of cybersecurity best practices, including encryption, firewalls, and secure coding techniques.

- **Communication & Collaboration**: Strong ability to communicate technical concepts clearly and collaborate effectively within teams.

- **Project Management**: Capable of managing project timelines, coordinating team efforts, and delivering results on schedule.

- **Continuous Learning & Adaptability**: Passionate about staying updated with emerging technologies and applying them to solve real-world problems.

- **Version Control (Git & GitHub)**: Experienced in using Git for version control and collaborative development in open-source projects.

- **Problem-Solving & Debugging**: Strong skills in identifying, diagnosing, and resolving issues in software applications and systems

- **Data Analysis & Visualization**: Skilled in using tools like Python (Pandas,), Excel, and Tableau for analyzing and visualizing data.

Software Development

- Assisted in developing and testing software applications to improve system efficiency.
- Participated in coding competitions and hackathons, achieving recognition for problem-solving and algorithm design within the university.
- Collaborated with senior developers in debugging and troubleshooting technical issues. Assist on java and SQL projects.

Web development

- Developed a fully responsive portfolio website using HTML, CSS, JavaScript, and Python for backend. Implemented modern web design principles for a clean and user-friendly interface, showcasing personal projects, skills, and achievements. Integrated dynamic features for enhanced user interaction and optimized website performance for various devices (https://bonifacemugo.netlify.app).
- Utilized HTML, CSS, JavaScript, and modern frameworks to create engaging user experiences. optimized website performance for better loading speeds.
- E-commerce Website - developed a fully functional e-commerce platform using PHP, MySQL, and JavaScript.
- Successfully optimized a web application, reducing page load time by 40% through improved database queries and front-end optimization.

Cyber security analysis

- Cybersecurity Analysis: Conducted research on encryption techniques to enhance data security in web applications.

- Gained hands-on experience in identifying and mitigating web vulnerabilities such as SQL injection, XSS, and broken access control through lab simulations and academic projects.
- Utilized tools like Wireshark, Burp Suite, and OWASP ZAP for network analysis, vulnerability assessment, and penetration testing.

EDUCATION BACKGROUND

- Bachelor of science and engineering (computer science) **–** Chuka university **–** 2021 (ongoing)
- Kenya certificate of secondary education   **–** Kirimara High School **–** Grade: B **–** 2020
- Kenya certificate of primary education **–** St. Veronica **–** Grade: 372/500 **–** 2016

PROFESSIONAL QUALIFICATIONS

- Data Analysis | SQL, Tableau, Power BI & Excel Course **–** Udemy **–** 2025
- 100 Days of Code - The Complete Python Pro Bootcamp Course **–** Udemy **–** 2024
- Cybersecurity and Emerging Technologies Awareness Training **–** ICT Authority, Kenya **–** 2024
- Introduction to computers: -Ms. Word, Ms. Excel, Ms. PowerPoint etc. **–** computer services -2020

MEMBERSHIP

- Member of Google Developer Student Clubs (GDSC) **–** Chuka University **–** 2023 to date

REFERENCES

Samuel Irungu Mwangi

Lecturer Chuka University

Tel: 0717029859

Email: Smwangi@chuka.ac.ke

CPA. Beth Wambui Wairi

Oxfam Kenya

Tel: 0794948675

Email: wairib@yahoo.com