



# Okech Prevyne Odhiambo

*Software Engineer | Virtual Assistant*

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## 🎓 Education

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### BSc. Information Technology

09/2020 – 05/2024

Kabarak University

Nakuru, Kenya

Second class honors, upper division.

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## 👤 Profile

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I am a full stack software engineer, virtual assistant and progressive web applications developer with over four years of development experience, currently specializing in M.E.R.N (MongoDB, ExpressJS, ReactJS, & NodeJS ) technology stack and Pro-dev back-end web development. I have developed a variety of web applications such as e-commerce websites, custom chat-bot applications, tour planning web applications, personal and business portfolio websites and inventory management systems. It is my personal mission to use my technical knowledge of digital tools and methodologies to build digital products and provide digital solutions to large scale enterprises and SMEs alike.

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## 💼 Experience

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### Back-end Web Developer Trainee

06/2025 – 10/2025

ALX Academy

Nairobi, Kenya

An advanced, project-based program focused on building professional-level backend web applications. This is a rigorous, hands-on experience that emphasizes mastering modern backend technologies, frameworks, and DevOps practices to create scalable, robust, and secure web solutions. The program combines technical specialization with crucial professional foundations.

#### ***Key Responsibilities & Projects:***

#### **Full-Stack Application Development:**

- Developed and deployed dynamic web applications from the ground up, utilizing a full-stack approach that included database design, server-side logic, and API integration.

- Engaged in an end-to-end "Airbnb clone" capstone project, applying learned principles to build a comprehensive, industry-standard web service.

#### **Backend & API Development:**

- Gained expertise in Python and JavaScript for backend development.
- Designed and implemented secure, well-documented RESTful APIs to facilitate communication between the server and client-side applications.
- Integrated third-party services and implemented a microservices architecture to build scalable and modular systems.

#### **Database & Data Management:**

- Mastered relational database management with MySQL and non-relational databases like MongoDB.
- Wrote advanced SQL queries, designed database schemas, and optimized queries for performance and efficiency.

#### **DevOps & Infrastructure:**

- Utilized Docker for containerization to ensure application portability and consistent deployment across different environments.
- Gained foundational knowledge in Kubernetes for container orchestration, and worked with web servers like Nginx.
- Set up and managed CI/CD pipelines using tools like GitHub Actions for automated testing and deployment.

#### **Professional & Methodological Skills:**

- Practiced Agile methodologies and collaborated effectively in a peer-learning "squad" environment, engaging in regular code reviews and problem-solving sessions.
- Developed strong documentation habits, writing technical specifications and progress logs to track project development.
- Cultivated critical soft skills, including communication, problem-solving, and managing complex tasks, as part of the program's professional foundations.

#### **Key Technologies & Languages:**

- Languages: Python, JavaScript, SQL
- Frameworks: Django, Flask, Node.js (Express.js)
- Databases: MySQL, MongoDB
- DevOps & Tools: Docker, Kubernetes, Nginx, GitHub Actions, Git/GitHub, Postman/Swagger.

#### **Full-Stack Software Engineer Trainee**

02/2025 – 08/2025

Nairobi, Kenya

#### *Power Learn Project (PLP) Africa*

A comprehensive, hands-on software engineering program focused on building a strong foundation in core programming principles before specializing in full-stack web development using the MERN stack. The program is project-based and designed to simulate a professional development environment.

#### **Key Responsibilities & Accomplishments:**

#### **Foundational Software Engineering:**

- Began the program with foundational training in Software Engineering Essentials, including version control (Git), Linux commands, and data structures.

- Gained proficiency in Python Programming by developing logical, object-oriented solutions and data-driven applications.
- Mastered Database Programming with SQL, designing and querying relational databases to manage and retrieve data efficiently.
- Participated in Web Development Version 2 to build fundamental web applications, focusing on the basics of HTML, CSS, and JavaScript.

#### **Full-Stack MERN Specialization:**

##### *Frontend Development (React.js):*

- Engineered dynamic and responsive user interfaces using React.js.
- Utilized component-based architecture and state management to build scalable frontend applications.
- Integrated backend APIs to fetch and display data, creating seamless user experiences.

##### *Backend Development (Node.js & Express.js):*

- Built robust and scalable backend services using Node.js and the Express.js framework.
- Designed and implemented RESTful APIs to handle requests, manage business logic, and interact with the database.

##### *Database Management (MongoDB):*

- Employed MongoDB as the NoSQL database, designing schemas and performing CRUD (Create, Read, Update, Delete) operations.
- Wrote complex queries and data models to support application features and ensure data integrity.

##### *Project-Based Learning & Methodologies:*

- Collaborated on team projects and solo assignments, practicing agile methodologies and adhering to coding standards.
- Applied debugging and problem-solving skills to troubleshoot application issues at both the frontend and backend.
- Used Git and GitHub for version control, collaborative coding, and deploying projects.

##### *Key Technologies & Languages:*

- Languages: Python, JavaScript, SQL
- Frontend: React.js, HTML, CSS
- Backend: Node.js, Express.js
- Database: MongoDB, MySQL/PostgreSQL (from SQL module)
- Tools: Git/GitHub, VS Code, Postman, Linux

#### **Professional Foundations Program Participant**

03/2025 – 06/2025

##### *ALX Academy*

Nairobi Kenya

A rigorous, project-based program designed to develop critical professional "meta-skills" such as leadership, critical thinking, and proactive communication essential for success in the modern workplace. The program's curriculum focuses on a blend of individual and team-based projects that foster leadership, analytical thinking, and effective communication.

##### *Key Responsibilities & Skills Acquired:*

##### **Communication & Collaboration:**

- Developed and delivered impactful presentations and technical documents to a diverse audience of peers and mentors.

- Engaged in peer-to-peer learning and collaborative problem-solving within a "squad" model, enhancing teamwork and negotiation skills.

#### **Critical & Entrepreneurial Thinking:**

- Applied design thinking principles to identify and solve complex problems, from defining user needs to creating wireframes and prototypes for innovative solutions.
- Cultivated an entrepreneurial mindset by identifying market opportunities and developing strategic solutions.

#### **Personal and Task Management:**

- Mastered effective time management and prioritization techniques to manage complex projects and deadlines in a high-intensity, self-directed environment.
- Fostered a growth mindset and a high degree of "agency" to proactively take ownership of tasks and continuously seek personal and professional improvement.

#### **Career Readiness & Professional Branding:**

- Developed a comprehensive career toolkit, including a professionally polished CV, a strong personal bio, an elevator pitch, and a LinkedIn profile.
- Learned to leverage AI tools for personal brand development and to enhance productivity in research and presentation creation.

#### **Key Meta-Skills:**

- Leading Self
- Leading Others
- Communicating for Impact
- Entrepreneurial Thinking
- Critical Thinking
- Managing Complex Tasks
- Tech Skills

#### **ICT Trainee**

*Sony Sugar Co. LTD*

07/2024 – 09/2024

Migori, Kenya

#### **Technical Skills:**

- Enhanced proficiency in installing and managing operating systems and Windows Server 2022.
- Gained hands-on experience in hardware maintenance and network equipment inspection.
- Acquired practical knowledge in configuring and maintaining agriculture management systems.
- Developed skills in Oracle database management and network monitoring.
- Improved ability to analyze historical data trends and troubleshoot syncing issues.

#### **Executive Virtual Assistant Trainee**

*ALX Africa*

07/2024 – 09/2024

Nairobi, Kenya

#### **Key Responsibilities & Accomplishments:**

##### **Time and Calendar Management:**

- Proactively managed and protected an executive's time by implementing and maintaining a highly organized and efficient calendar system.

- Mastered time-management techniques (e.g., using a prioritization matrix) to optimize daily schedules and ensure critical deadlines were met.
- Coordinated and scheduled complex meetings across multiple time zones, including preparing agendas, taking detailed minutes, and tracking action items.

#### **Inbox and Communication Management:**

- Designed and maintained an efficient inbox management system, filtering and prioritizing emails to ensure the executive's focus remained on high-impact tasks.
- Drafted professional and timely email correspondence, demonstrating excellent written communication skills and a high level of discretion.

#### **Research and Reporting:**

- Conducted extensive internet research and compiled detailed, well-structured reports on a variety of topics, including market trends, competitor analysis, and industry insights.
- Synthesized complex information into clear, concise summaries for executive review and strategic decision-making.

#### **Administrative and Travel Coordination:**

- Arranged and booked personal and business travel, including flights, accommodation, and transportation, while creating comprehensive travel itineraries.
- Proficiently used tools like Google Workspace (Docs, Sheets, Slides) to create and manage administrative documents, presentations, and data entry tasks.

#### **Technology and Tools:**

- Developed proficiency in a suite of modern productivity tools, including Google Workspace, Asana (for project management), and other relevant applications.
- Leveraged generative AI tools to enhance efficiency in tasks such as content drafting, research, and data synthesis, showcasing an eagerness to learn and adapt to new technologies.

#### **Software Engineer Trainee**

09/2022 – 06/2024

*ALX Academy*

Nairobi, Kenya

I was part of the rigorous, full-time, and project-based software engineering program with an emphasis on low-level programming, data structures, and algorithms. The curriculum is a demanding, peer-learning model that simulates the real-world demands of a professional software development environment.

#### **Key Responsibilities & Accomplishments:**

##### **Software Development Life Cycle (SDLC):**

- Designed, developed, tested, and maintained scalable software solutions from concept to deployment in a collaborative environment.
- Authored and maintained clear, comprehensive documentation for projects, including technical specifications and user guides.

##### **Low-Level & Systems Programming:**

- Developed a deep understanding of memory management (manual vs. automatic), bit manipulation, and process handling using C.

- Built fundamental data structures from scratch, including singly linked lists, doubly linked lists, hash tables, and binary trees.
- Created and debugged a custom simple shell, demonstrating a solid understanding of system calls, processes, and file I/O in a Unix/Linux environment.

#### **Algorithms and Data Structures:**

- Applied various sorting (e.g., Bubble Sort, Quick Sort) and searching algorithms (e.g., Binary Search) to optimize code performance.
- Analyzed and evaluated algorithm complexity using Big O notation to ensure efficient and scalable solutions.

#### **Web Development & DevOps:**

- Gained hands-on experience in full-stack development by building a functional web service, from back-end logic to front-end presentation.
- Implemented RESTful APIs and interacted with databases (MySQL, NoSQL) to manage and manipulate data.

#### **Version Control & Collaboration:**

- Proficiently used Git and GitHub for version control, collaborative coding, and code reviews, following industry best practices.
- Worked in a squad-based community, collaborating with peers to solve complex technical problems and conduct peer reviews of code.

#### **Key Technologies & Languages:**

- Languages: C, Python, JavaScript, Bash
- Databases: MySQL, Redis
- Tools & Technologies: Git/GitHub, Linux/Unix, Vim, Emacs.

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## Skills

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**Python web programming****frameworks**

Django &amp; Flask

**Problem-Solving & Innovation**

Shell scripting for workspace automation.

Smart AI tools and prompt engineering skills.

**Full-stack web development**MERN (MongoDB, ExpressJS, ReactJS and  
NodeJS) Tech Stack**IT hardware & software****maintenance**OS installation and upgrade, hardware  
component replacement and upgrade, System  
troubleshooting, computer inventory  
management.**Communication &****Collaboration**

- Prioritization and task management (e.g., using prioritization matrices).
- Calendar management and scheduling.
- Meticulous attention to detail.
- Confidentiality and discretion in handling sensitive information.
- Proactive and effective communication (written and verbal).
- Active listening.
- Professional email etiquette and correspondence.
- Upward management (effectively communicating with and managing expectations of supervisors).

**Time management &  
organization**

- Prioritization and task management (e.g., using prioritization matrices).
- Calendar management and scheduling.
- Meticulous attention to detail.
- Confidentiality and discretion in handling sensitive information.

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**English • Swahili**

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## Languages

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**ALX Virtual Assistant Certification — September 2024 • ALX Professional Foundations — June 2025 • ALX ProDev Backend Development — October-2025**

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## Certificates

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## Interests

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### **Continuous learning & Skills Development**

I am passionate about continuous learning and upskilling to develop a sustainable career in the software engineering field.

### **Community Engagement & Networking**

I thrive on building strong relationships, mentoring aspiring tech professionals, and fostering vibrant learning communities that drive innovation and collaboration.

### **Web application programming**

I am particularly interested in developing responsive web applications for individuals, large organizations and small/medium enterprises (SMEs).

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## Courses

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### **Virtual Assistant Programme**

*ALX Africa*

07/2024 – 09/2024

Nairobi, Kenya

### **Software Engineering**

*ALX Africa*

12/2022 – 09/2023

Nairobi, Kenya

### **Software Engineering**

*Power Learn Project Academy*

02/2025 – present

Nairobi, Kenya

### **Pro-dev Back-end Web development**

*ALX Africa*

03/2025 – present

Nairobi, Nairobi

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## Projects

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### **Project Nexus Job board API**

*Django, Django-REST framework, SwaggerAPI*

09/2025 – 09/2025

### **Kazi-Match: Job-Skill matching platform**

*MongoDB, ExpressJS, ReactJS, NodeJS (M.E.R.N Stack)*

07/2025 – 07/2025

### **Joblify: AI-Powered Job-Skill matching Platform**

*Python (Django), Bootstrap, Scikit-learn.*

06/2025 – 07/2025

### **General Enquiry Chatbot**

*Python (Flask, Tensor-flow), JavaScript*

03/2025 – 03/2025

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 **Declaration**

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I, Prevyne Okech, hereby declare that the information provided in this CV is true and accurate to the best of my knowledge and belief. I am fully responsible for the authenticity of the details mentioned and am prepared to provide supporting documents upon request.

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**Okech Prevyne Odhiambo**