

HILLARY BETT

Software Engineer

CONTACT

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PROFESSIONAL SUMMARY

Results-driven Software Engineer specializing in designing, building, and optimizing scalable applications. With experience across front-end, back-end, and database systems, I focus on creating efficient, user-friendly, and secure solutions. I enjoy solving complex problems, collaborating with teams, and leveraging modern technologies to deliver impactful software.

EXPERIENCE

DATA SCIENCE TRAINEE | 2025

Oracle

- Gained hands-on experience with Oracle technologies, focusing on cloud platforms, databases, and modern software engineering practices.
- Assisted in developing and optimizing applications while applying clean code and performance best practices.
- Supported technical documentation and collaborative project work, strengthening problem-solving and teamwork skills.

SOFTWARE DEVELOPER INTERN | May 2024 – August 2024

Powerlearn ,Nairobi, Kenya

- Assisted in building and maintaining web applications, contributing to both front-end and back-end development tasks.
- Implemented debugging and testing procedures to improve code reliability and application performance.
- Supported project documentation and collaborated with senior developers to deliver scalable solutions.

EDUCATION

KIRINYAGA UNIVERSITY | 2021-2025

Bachelor of Science in Software Engineering

TECHNICAL & RESEARCH SKILLS

PROGRAMMING LANGUAGES & FRAMEWORKS

- Languages: JavaScript (ES6+), TypeScript
- Frontend: React.js, Redux Toolkit, Tailwind CSS, HTML5, CSS3, Next.js
- Backend: Node.js, Express.js, Socket.io, Python (FastAPI/Flask).
- Stack Experience: MERN (MongoDB, Express, React, Node.js)

Databases

- Relational: MySQL, PostgreSQL
- NoSQL: MongoDB, MongoDB Atlas, Firebase , Firestore.
- Authentication & Storage: Firebase Auth, Clerk.

Cloud & DevOps

- Cloud Platforms: Microsoft Azure, Oracle Cloud Infrastructure, Firebase, Vercel, Netlify, Render, Railway.

- Containerization: Docker, Kubernetes.
- CI/CD: GitHub Actions
- API Tools: Postman, Swagger/OpenAPI

Development Tools & Practices

- Version Control: Git/GitHub
- Build Tools: Vite
- Methodologies: Agile/Scrum, Pair Programming, Code Reviews
- Documentation: Technical Documentation, API Specification (OpenAPI)

Testing

- Performance: Load & Stress Testing (k6)
- Code-Level: Unit Testing, Integration Testing
- Debugging & Analysis: Systematic Debugging, Performance Optimization

Research & Collaboration

- Problem-Solving, Literature Review, Collaborative Reporting
- Project Planning, Technical Analysis, Knowledge Sharing

PROJECTS

AUTOMATED PUBLIC SERVICE VEHICLE SEAT RESERVATION SYSTEM | January 2025 – March–2025

- Built a web-based seat reservation system for public service vehicles, enabling users to view, select, and book seats in real time. Integrated the M-Pesa Daraja API for seamless and secure mobile payments, and implemented dynamic seat-mapping logic to visually represent available, reserved, and booked seats. Developed the backend using TypeScript, Node.js, Hono, Drizzle ORM, and PostgreSQL, with JWT authentication ensuring secure user access and smooth session handling.

E-SHOP ECOMMERCE WEBSITE | April -2025

- Built a full-stack e-commerce website with product browsing, cart management, and secure checkout functionality. Implemented authentication, order processing, and an admin dashboard for managing products and customers. Developed using React, Node.js, Express, and MongoDB, and integrated the M-Pesa Daraja API to enable secure and seamless mobile payments during checkout.

CERTIFICATIONS

- **Race to certification-Oracle | July-2025**
- **Powerlearn project -April-2024**

COMMUNITY INVOLVEMENT

Web Development Lead– Computer Society of Kirinyaga | April 2024 – March 2025

- Engaged in a community of 60+ web development students, attending sessions on web technologies and career development while collaborating and sharing knowledge with peers.