

# John Nganga Kangethe

530 Elm Street  
Vermillion, SD  
📞 +1 (605) 659-6850  
✉️ [john.kangethe@coyotes.usd.edu](mailto:john.kangethe@coyotes.usd.edu)  
🌐 <https://johnkangethe.me/>

## Profile

Graduate student in Computer Science (Artificial Intelligence) at the University of South Dakota, with software engineering experience across web applications, cloud solutions, and open-source contributions. Keen on applied ML and informatics; strong background in JavaScript/Python, API design, and accessible UI. Seeking roles that combine engineering, data, and student-facing or research support.

## Education

- Aug 2025 – **MSc. in Computer Science (Artificial Intelligence)**, *University of South Dakota*, Vermillion, SD
- 2023 **Certificate in Software Engineering**, *Flatiron School*, New York, USA
- 2018 – 2022 **Bachelor of Technology**, *Technical University of Kenya*, Nairobi, Kenya
- 2019 – 2021 **Diploma in Computer Science**, *Pan Africa Christian University*, Nairobi, Kenya

## Professional Experience

- Jan 2024 – **Cloud Solutions Practitioner**, *Oracle Data Center Kenya*, Nairobi, Kenya
- Aug 2025
  - Implemented and maintained cloud-native deployments; improved reliability and CI/CD hygiene across environments (Docker, Railway, monitoring).
  - Authored SOPs, runbooks, and change logs; coordinated cross-team releases and post-incident reviews to drive consistent quality.
  - Partnered with stakeholders to scope small platform features and streamline support workflows, reducing issue turnaround time.
- Jan 2023 – Jan 2024 **Software Maintenance Engineer**, *BuiltWith (Open-source)*, Remote
  - Researched and added technology-detection rules (regex, headers, scriptSrc), reviewed PRs, and triaged issues to keep signatures current.
  - Improved detection precision by minimizing false positives and documenting edge cases; contributed tests and examples.
  - Wrote concise contributor docs and FAQs that supported community onboarding and responsiveness.
- Feb 2023 – **Software Engineer**, *Emmerce Kenya*, Nairobi, Kenya
- Dec 2023
  - Built secure, scalable ecommerce features (APIs, DB tuning, third-party integrations) and optimized page performance.
  - Improved developer experience with linting, code reviews, and release notes; contributed to analytics dashboards.
- Apr 2023 – **Frontend Engineer / UI-UX Designer**, *ULG Africa*, Nairobi, Kenya
- Feb 2024
  - Delivered component-based UIs in Vue/React; emphasized accessibility, responsive patterns, and clear information hierarchy.
  - Collaborated with backend and design to iterate quickly on user feedback and product requirements.
- Jan 2023 – **Software Developer Intern**, *iTalanta Agency*, Nairobi, Kenya
- Mar 2023
  - Contributed to platform features, testing, and agile ceremonies; practiced code reviews and pair programming.
- Nov 2021 – **Informatics Intern**, *KEMRI, CBRD Dept.*, Nairobi, Kenya
- May 2022
  - Supported data operations and software integrations for lab workflows; assisted with database maintenance and automation scripts.

## Selected Projects

- 2024 – Present **Car Rental Web App (Vue3 + Naive UI, Node/Prisma)**, *Personal*, GitHub: sean-code
- Customer site and admin dashboard (CRUD, image uploads, booking workflow, PDF receipts); real-time availability and booking history.
  - Auth, role-based access, and metrics endpoints (bookings, revenue, cancellations); designed for future mobile-friendly expansion.
- 2023 – 2025 **BuiltWith Contributions**, *Open-source*, Remote
- Added/maintained signatures for JS libraries, payment processors, and frameworks; improved version extraction with capture groups.
- 2025 **Bioinformatics Data Extractor (prototype)**, *Academic/Personal*, USD,
- Early-stage Python tool exploring structured extraction of genomic markers to aid downstream visualization and query.

## Skills

- Languages: Python, JavaScript, Ruby, SQL; HTML5/CSS3.
- Frameworks: Vue, React, Next.js, Naive UI, Tailwind CSS (UI frameworks); Prisma, Node.js, Express, Ruby on Rails, Django, Flask, FastAPI
- Data/ML: Pandas, NumPy, Matplotlib, PyTorch; visualization and evaluation fundamentals.
- Cloud/DevOps: Docker, Railway/Render/Vercel, Git/GitHub; CI/CD basics, Mercurial.
- UX: Responsive design, accessibility mindset, plain-language documentation.
- Tools: VS Code, Postman, Figma, Google Workspace, Markdown.

## References

Available on request.