

# David Parseen Maitoyo

Senior Software Engineer | Building High-Performance & Secure Applications

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## Professional Summary

Senior Software Engineer with over 6 years of progressive experience delivering robust, scalable solutions in dynamic tech environments. Adept in full-stack development and skilled in incrementally refining mature infrastructures through strategic enhancements in microservices, CI/CD automation, and secure payment processing. A collaborative leader committed to continuous learning, technical excellence, and measurable business impact.

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## Skills

### Technical Skills

- **Programming Languages:** TypeScript, JavaScript, Python, Rust, Kotlin, Ruby
- **Frameworks & Libraries:** React, Next.js, Django, Ruby on Rails, React Native
- **Databases:** PostgreSQL, MySQL, Cloudflare D1, MongoDB, DynamoDB
- **DevOps:** CI/CD (CircleCI, Jenkins), Docker, Kubernetes, Helm, Terraform, AWS, GCP, Firebase
- **Blockchain:** Solidity, Solana Development, Blockchain Auditing/Security Reviews
- **AI/ML:** Generative AI, Machine Learning
- **Other:** RESTful API Design, Microservices, Payment Processing Integration, Git

### Soft Skills

*Problem Solving, Critical Thinking, Adaptability, Team Leadership, Communication, Mentorship, Continuous Learning*

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## Professional Experience

### Software Engineer

Andela – Remote (New York, United States)

October 2017 – February 2020

- **Full-Stack Development:**
  - Designed and maintained scalable web and mobile applications using TypeScript, React, React Native, and Python/Django, improving application response times by 20%.
  - Contributed to the initial design and iterative rollout of a microservices architecture that laid the groundwork for future scalability improvements.
- **DevOps & Database Optimization:**
  - Developed and refined CI/CD pipelines that reduced deployment errors by 25% and cut release cycles by 15%.
  - Optimized backend queries and fine-tuned PostgreSQL/MySQL configurations, achieving a 20% reduction in data retrieval times.
- **Team Collaboration & Mentorship:**
  - Mentored junior developers and led agile sprints, resulting in a 15% increase in team productivity.
  - Authored comprehensive documentation and best practices that enhanced cross-team knowledge sharing.

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## Software Engineering Lead

Proto Energy – Hybrid (Nairobi County, Kenya)

February 2020 – August 2021

- **System Modernization:**
  - Collaborated on transitioning legacy monolithic systems to a cloud-based, microservices architecture using Python/Django and React.
  - Integrated secure payment processing modules that reduced transactional errors by 30% and streamlined revenue tracking.
- **Operational Efficiency:**
  - Implemented database optimizations on PostgreSQL and SQLServer, enhancing data retrieval speeds by 25%.
  - Enhanced CI/CD workflows with automated testing scripts, reducing deployment cycle times by 30% while maintaining 99.9% uptime.
- **Leadership & Quality Assurance:**
  - Conducted regular code reviews and hosted technical workshops, improving team adherence to best practices and increasing overall code quality by 15%.

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## Senior Software Engineer (Contract)

Syndicate – Remote (Palo Alto, California, United States)

August 2021 – October 2022

- **Advancing a Fully Web3 Platform:**
  - Played a pivotal role in evolving a fully decentralized, Web3-based platform by collaborating on the design of a blockchain-native architecture.
- **Smart Contract & Payment Module Optimization:**
  - Engineered and optimized smart contract integrations and decentralized onboarding solutions that reduced confirmation times by 35% while ensuring robust security during onboarding.
- **Enhanced Decentralized Analytics:**
  - Refined token-driven analytics dashboards and decentralized governance protocols, contributing to a 40% increase in user engagement and actionable insights.
  - Streamlined Blockchain Deployments:
  - Assisted in optimizing CI/CD workflows for blockchain deployments, ensuring seamless integration of protocol updates without network disruption.
- **Web3 Mentorship:**
  - Provided technical mentorship on Web3 standards and best practices, improving code quality and protocol compliance by 20% across the team.

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## Senior Software Engineer

Branch Microfinance International – Remote (Nairobi County, Kenya)

October 2022 – June 2024

- **Strategic Technology Adoption:**
  - Joined a mature engineering team to extend backend capabilities by extending Ruby on Rails for new feature development and Kotlin to enhance Android mobile integrations.
  - Incrementally refined existing microservices, achieving a 40% reduction in feature deployment times and a 30% improvement in API response performance.
- **Database & CI/CD Enhancements:**
  - Optimized PostgreSQL query performance and refined database management practices to support high-volume payment processing systems.
  - Collaborated with DevOps teams to fine-tune CI/CD pipelines, significantly reducing system downtime.
- **Cross-Functional Collaboration:**
  - Participated in strategic technical planning to align enhancements with business objectives, resulting in a 35% boost in operational performance.
  - Led technical discussions that promoted the adoption of new best practices across teams.

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**Senior Software Engineer (Freelance)**  
**Turing – Remote (Palo Alto, California, United States)**

June 2024 – Present

- **Advanced Integration & Global Collaboration:**
  - Lead projects to integrate cutting-edge AI/ML modules into established systems, enhancing real-time decision-making accuracy by 20% without disrupting core functionalities.
  - Further optimized CI/CD pipelines in collaboration with dedicated DevOps specialists, reducing deployment cycle times by 35%.
- **Continuous System Enhancements:**
  - Delivered targeted, incremental improvements across system components, preserving a robust and scalable infrastructure while driving measurable performance gains.
  - Facilitated technical workshops and knowledge-sharing sessions that elevated team practices and fostered innovation.
- **Strategic Technical Guidance:**
  - Provided ongoing technical leadership and strategic insights, ensuring that new integrations align with evolving business goals and industry standards.

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**Education**

**Bachelor of Science in Mathematics**

University of Nairobi – Nairobi, Kenya  
January 2014 – September 2019

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**Certifications**

- **Blockchain Fundamentals Certification – Chainlink Labs**  
Issued November 2024 (Expires November 2025)
- **Introduction to Quantum Cryptography – LinkedIn Learning**  
Issued February 2020

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**Professional Development & Interests**

- **Professional Development:**
  - Regularly attend technical workshops, webinars, and hackathons to stay updated with emerging trends in AI, blockchain, and mobile innovation.
  - Actively participate in open-source projects and contribute to technology blogs, sharing insights and learning from a vibrant global community.
  - Host internal technical workshops and mentoring sessions to nurture emerging talent and promote best practices across teams.
- **Interests:**
  - Passionate about exploring new frontiers in decentralized technologies and their potential to reshape digital interactions.
  - Enjoy collaborating with diverse tech communities and networking with like-minded professionals.
  - Committed to lifelong learning and continuously seeking innovative solutions to complex challenges.

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**Chronological Career Growth Highlights**

- **Andela (2017–2020):** Established a robust full-stack foundation, initiated early microservices and DevOps practices, and optimized critical backend processes.
- **Proto Energy (2020–2021):** Modernized legacy systems with cloud-based microservices, integrated secure payment processing, and significantly enhanced operational efficiency.
- **Syndicate (2021–2022):** Advanced a fully decentralized Web3 platform by implementing blockchain-native microservices, optimizing smart contract integrations, and refining decentralized analytics.
- **Branch International (2022–2024):** Expanded technical expertise with Ruby on Rails and Kotlin to enhance backend and mobile functionalities, driving substantial performance improvements.
- **Turing (2024–Present):** Leveraging advanced AI/ML integrations and refined DevOps practices to deliver continuous, global-scale system enhancements and measurable business impact.