KIRINGABAKWE IBRAHIM

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SUMMARY

- Detail-oriented Software and AI Engineer with a strong focus on full-stack development, seeking a challenging role in Software Development to leverage my expertise in creating efficient, scalable, and user-friendly applications. Proficient in utilizing modern web technologies and Python frameworks, particularly Django, to build comprehensive systems aimed at enhancing customer experience and operational efficiency. Adept at full-stack development with a strong foundation in Python Django, JavaScript, PHP, Next.js, Firebase, Material UI, TailwindCSS, HTML5, CSS3, Bootstrap and MySQL. Proven ability to manage projects independently, from conception to deployment, with a keen interest in AI-driven solutions and customer support automation.

TECHNICAL SKILLS

- **Programming Languages**: Python, JavaScript, PHP, React, Typescript, Dart ,HTML5, CSS3
- **Frameworks & Libraries**: Django, Next.js, TailwindCSS, Bootstrap, Material UI, Flutter
- **Database Management**: MySQL, PostgreSQL, Firebase
- **Version Control**: Git, GitHub
- **APIs**: RESTful API development and integration
- **Other Tools**: Linux, Docker, AWS

EDUCATION

Mountains of The Moon University – Kabarole, Uganda   **August 2012 – October 2015**
Bachelor's Degree in Information Technology

CERTIFICATION

Headstarter AI – Long Island City - New York, USA   **June 2024 – To Date**
Software and AI Engineering.

Power Learn Project Academy – Nairobi, Kenya   **February 2024 – June 2024**
Software Development.

WORK EXPERIENCE

Software & AI Engineer Fellow   **July 2024 - To Date**
HeadStarter – Long Island City - New York, USA
- Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment
- Worked in a team of 3 to develop an interactive customer support agent using Next.js, integrated a custom RAG pipeline using Gemini AI and Pinecone that responds based on a company's knowledge base
- Collaborated with 3 Fellows to build and deploy a SaaS product that generates dynamic flashcards based on any topic using the gemini-1.5-flash via the Gemini API, integrated a paywall and custom pricing plans using the Stripe API
- Implemented a web scraper that automatically extracts data from Rate my Professor and upsert to a Pinecone index, integrated with a RAG pipeline using TF-IDF - embedding and gemini-1.5-flash to get up-to-date and relevant answers to user queries
- Scaled each web-app to 50+ users, iterated on user feedback to make continuous optimizations
- Participate in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups

IT Administrator | Software Engineer   **February 2020 - To Date**
Stitch and Sew Fortportal Toyota – Kabarole, Uganda
- Developed a comprehensive online parts ordering system using Python's Django framework. The system improves customer experience and operational efficiency.
- Designed and developed a responsive website for the company using HTML5, CSS3, JavaScript, PHP, and MySQL. The website significantly increased customer engagement and provided a seamless user experience.
- Managed end-to-end project development, including requirement analysis, system design, coding, testing, deployment, and maintenance.
- Managed the deployment and hosting of websites on various platforms, ensuring high availability, security, and performance.
- Implemented Continuous Integration and Continuous Deployment (CI/CD) pipelines using tools like Git and GitHub

FELLOWSHIP & COURSE PROJECTS

Headstarter AI – Long Island City - New York, USA

- **Portfolio Website**
  Technologies: HTML5, CSS3, JavaScript

- **Pantry Tracker**
  Technologies: Next.js, Firebase, Material UI

- **AI Customer Support Chatbot**
  Technologies: Next.js, Gemini API, Firebase, TailwindCSS

- **Flashcards**
  Technologies: Next.js, Clerk, Stripe, Firebase, TailwindCSS

- **Rate My Professor**
  Technologies: Next.js, Python, Gemini, Pinecone, TF-IDF - embedding

Power Learn Project – Nairobi, Kenya

- **Online Parts Ordering System**
  Technologies: Python, Django, HTML5, CSS3, Bootstrap, JavaScript, MySQL

INTERESTS

- Tech conferences and Webinars
- Tech blogs and publications
- Volunteer Local Community Organisations

REFEREES

Kobusinge Doreen,
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