Nathan Assefa Kasa
Full Stack Software Engineer
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PROFESSIONAL EXPERIENCE

Lyft Back-End Engineering Job Simulation - November 2023 experience

- completed the Back-End Engineering job simulation, inheriting a project with 30% of the codebase disorganized for the Lyft Rentals team.
- Drafted a UML class diagram representing a new reorganized architecture, incorporating 5 innovative features.
- Refactored 80% of a complex and challenging codebase inherited from another team to align it with the new design
- Implemented 50+ unit tests and added 5+ new functionality using test-driven development.

EDUCATION

Holberton School | San Francisco, USA (Remote)

Software Engineering Program   Sep 2022 - Nov 2023

University Of Wolaita Sodo | Ethiopia

Bachelor of Science in Mechanical Engineering   Jan 2016 - Aug 2021

CGPA: 3.6

PROJECTS

Designed a Robust Social Media Platform Inspired by Reddit:

- Drove the development of a Reddit-inspired social media platform, utilized by 100+ users with 15+ integrated features.
- Cultivated over 10 active communities, ensuring an impressive uptime of 99.9% for exceptional platform reliability.
- Seamlessly incorporated a search system, leading to a remarkable 15% increase in user satisfaction during post searches.
- Strategically employed Django's authorization framework, reducing overall implementation time by over 60%.
- Utilized React-Query for efficient backend data fetching, reducing frontend workload by 50%.
- Ensured a flexible design compatible with 5+ electronic devices, tailored for various screen sizes to enhance accessibility.

E-commerce Website

- Guided a multi-disciplinary team of 2 individuals in designing, developing, and deploying an online e-commerce store with 10+ features.

- Established a structured system with 5+ categories to optimize product organization and user navigation.
- Analyzed and categorized 200+ products from the MySQL database, rendering them systematically within their respective categories.

Airbnb Project from Scratch
- Led a diverse team of 3+ members, each contributing to different facets of the project.
- Engineered and architected 7 distinct tables with a well-crafted and interrelated structure, showcasing proficiency in database design principles.
- Analyzed over 10,000 data points using SQL language within the MySQL database, demonstrating advanced data querying and processing skills
- Designed and executed over 100 unit tests, ensuring comprehensive test coverage and resilient code functionality.
- Integrated filtering options for places based on location, city, and amenities, enhancing user search functionality across 3 key parameters.

Solar Water Heater
- Led a 3-person team in the development of a sustainable solution to replace the university's non-renewable energy with solar power.
- Designed a potential reduction of 30% or more in energy waste through the successful implementation of the solar power project.
- Received a score of 96 out of 100, resulting in an A+ for innovative design and effectively reducing wood consumption.

SKILLS

- Full Stack Software Engineer - Specialized in Backend Development - Django, Python, React, Flask, JavaScript, C - MySQL, PostgreSQL, MongoDB, Reddis	- Git, GitHub - Software Architecture - Refactoring - TDD - UML - Unit Testing

CERTIFICATIONS

ALX SOFTWARE ENGINEERING
Certificate of Completion of Software Engineering Training
Nov. 2023

SATCOM INSTITUTE OF TECHNOLOGY
Certificate of Completion of Software and hardware maintenance.
Aug. 2022

VOLUNTEERING

ALX
Foundation portfolio project examiner.
Oct. 2023

- Served as the Foundation Portfolio Project Examiner for ALX students, assessing and providing valuable feedback for the projects of over 5 individuals.