Nathan Assefa Kasa

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Experience

- **Lyft**   Oct 2023 - Nov 2023
  Lyft Back-End Engineering Job Simulation

  • 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

- **Holbeton school | 972 Mission St, San Francisco, USA**   Sep 2022 - Nov 2023
  Software engineering
  Certified

- **Wolaita sodo University | Ethiopia**   Jan 2016 - Aug 2021
  BsC in Mechanical engineering
  CGPA 3.6

Skills

- Full-Stack Software Engineer
- Software architecture
- Refactoring
- Python, Django, Flask, React, jQuery, JS, C, Nodejs
- Redis, MySQL, MongoDB, PostgreSQL
- Git, GitHub
- TDD
- UML
- Unit Testing

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.

Personal Details

- Github : https://github.com/nathan-assefa