Rami-Lionel Kuttab

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Software Engineer

- **Impactful Full-Stack Engineering:** Spearheaded projects that boosted user engagement by 25% through advanced React interfaces and backend optimization, improving system efficiency.
- **AI-Driven Innovation:** Engineered an AI travel agent platform leveraging GPT and LangChain, simplifying trip planning with seamless and intuitive user experiences.
- **Cross-Functional Collaboration:** Partnered with stakeholders and teams to align technical solutions with business objectives, delivering impactful features that enhanced operational workflows.

Core Skills

Programming Languages: Python, C++, JavaScript, Rust, React, React Native
Software and Web Development: OS (Linux), Distributed Systems, Scalable Software System Design, Backend Development, RESTful API Development, UI/UX Development, Real-Time Tracking, HTML, CSS
Cloud and Databases: Kubernetes, Docker, CI/CD, PostgreSQL, MySQL, Cassandra, Redis, AWS
AI and Machine Learning: LangChain, GPT (LLM), Natural Language Processing (NLP), Machine Learning, AI Agents

Experience

Senior Full Stack Software Engineer, Flow - Austin, TX — 2024 – Present

Driving full-stack engineering initiatives to elevate UI/UX and backend performance for high-impact SaaS solutions.

- **Boosted user engagement:** Increased user satisfaction by 25% as measured by customer feedback by engineering React-based front-end interfaces and streamlining navigation.
- **Enhanced backend scalability:** Improved data retrieval speeds by 20% as measured by performance benchmarks by optimizing database queries, implementing Redis for caching, and deploying containerized applications using Kubernetes.
- **Optimized deployment pipelines:** Reduced deployment times by 30% through building CI/CD pipelines with GitHub Actions, ensuring consistent and high-availability updates across distributed systems.

Software Engineer Intern, BGC Partners - New York, NY — 2022 – 2022

Optimized software tools and processes to enhance operational efficiency.

- **Achieved a 25% increase in processing speed** by implementing advanced parallel programming techniques for financial data processing.
- **Automated version tracking and emails with Python**, saving 1 hour per team member per update cycle.
- **Conducted 50+ code reviews in 2 weeks**, resolving critical issues and improving code quality by 12%.

Projects

AI Travel Agent Platform, — 2024 – Present
Developed an AI-driven travel agent platform to simplify trip planning.

- Leveraged GPT and LangChain to create a seamless process for retrieving flights, hotels, and itineraries.
- Designed a distributed backend system to manage multiple API integrations, ensuring data consistency and fault tolerance.

Realtor Management SaaS, — 2024 – 2024
Streamlined real estate operations with a scalable SaaS solution, emphasizing full-stack ownership and deployment.

- Designed and implemented RESTful APIs to enable seamless inter-service communication, reducing latency by 30%.
- Engineered a highly available architecture with database replication strategies to ensure zero downtime during deployment.

Multi-Threaded Traffic Light Simulation, — 2023 – 2024
Developed a real-time traffic simulation using C++ and parallel programming to optimize traffic systems.

- Leveraged multithreading with condition variables and mutexes in C++ to synchronize vehicle movement and manage intersection queues efficiently.
- Designed a scalable framework for real-time traffic simulations, enabling congestion-free and seamless vehicle flow at intersections.

Education

MS in Computer Science, Syracuse University

BS in Computer Science, Syracuse University