Kurtis Assad

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PROFESSIONAL EXPERIENCE

Senior Software Engineer   12/2022 – present
Commonwealth Labs   New York,
                                                                                          USA (remote)
- Founding engineer in a startup which recieved series A funding. Involved writing full-stack code for commonwealth.im 🔗 , a crypto-based social media platform.
- Scaled our platform from serving 3rps to 70rps, while keeping the price per rps relatively flat.
- Conducted the technical interview stage for prospective engineering candidates.
- Wrote EVM smart contracts in solidity for various projects and partnered with the front-end team to help integrate them through slack communication and code reviews.
- Wrote various webpages and React components based off figma designs while collaborating closely with the design team to ensure optimal feature usability and alignment with the product vision.
- Designed our asynchronous API using rabbitmq to listen to evm events to reflect changes on our platform.
- Performed strangler-fig migration from express to tRPC.
- Worked with frontend team to migrate our state management over to TanStack Query based off the tRPC code generation.
- Built our integration testing system for our API and Anvil through the use of Testcontainers.
- Spearheaded migration from Heroku to AWS, reducing monthly infrastructure costs by 15%.
- Wrote our CI/CD pipeline in github actions involving image caching on ECR for immutable deployments.
- Added an analytics pipeline based of Postgresql pg_stat_statements module allowing us to iteratively optimize the most costly queries.
- Configured Cloudflare to cache assets as a CDN, and migrated asset urls in database to route through it.

Backend Software Engineer   04/2019 – 12/2022
CardinalChain   Vancouver, Canada
- This project consisted of multiple microservices making up the parts of a crypto exchange for the largest crypto exchange on the Japanese market (coin.z.com).
- Ran the full gamut for a new service. Including designing and writing the application in Spring Boot. Adding to our terraform config to provision compute and external services. Containerizing it and deploying it to via a kubernetes deployment manifest. Performing all these steps in a Jenkins CD pipeline.
- Introduced hashicorp vault into our CI/CD pipeline to use consistent environment variables across our staging environments.
- Optimized SQL queries through the use of the query planner and data access patterns.
- Implemented Redis caching for certain high-frequency API endpoints.
- Implemented asynchronous APIs with the help of RabbitMQ.
- Analyzed JVM to improve performance. Identified and resolved a difficult bug involving JVM bottlenecking the resources during application startup.

EDUCATION

Bachelors of Science in Computer Science   09/2015 – 04/2019
University Of Toronto

SKILLS

Languages: Javascript/Typescript (Node, React), Solidity, Kubernetes, Terraform, Java.

Tools: AWS (ECS, EKS, VPC, RDS, ...), PostgreSQL, RabbitMQ, Cloudflare, Github Actions