Khalil Jouaneh

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Education

Queen's University   September 2019 — May 2023
Bachelors of Computing (Honours) in Software Design   *Kingston, ON*
- **Relevant Coursework:** Data Structures, Algorithms, Operating Systems, System Level Programming, Web Development, Database Management Systems, Human Computer Interaction
- **Awards:** Received Principal's scholarship, Dean's Honour List x 2

Experience

QMIND   May 2023 - Aug 2023
Software Engineer Intern   *Kingston, ON*
- Integrated Apollo client mechanism for threading, enhancing the performance of RPC requests.
- Enhanced a core authorization utility, empowering services with streamlined user authorization flow.
- Improved monorepo by transitioning to Yarn V2 with local caching, speeding up CI/CD workflows.
- Automated Google Cloud deployments and MongoDB cluster creation using Terraform, accelerating development timelines

QMIND   May 2022 - August 2022
Frontend Engineer Intern   *Kingston, ON*
- Developed webhooks to monitor transactions, enhancing order fulfillment and storing data in a PostgreSQL db.
- Implemented a secure password reset flow with reset tokens, IP address and Browser validation, and confirmation emails using Sendgrid's Email API
- Reduced API load of Next.js + GraphQL back-end through automatic connection pooling, load balancing, and global caching with Prisma Accelerate.
- Added features to React dashboard such as filters, exporting orders as a CSV, and product verification pipeline

Projects

Alphaline - Blockchain Credit Score Model | *Typescript, React, Next.js, Vercel, Prisma, GraphQL, PostgreSQL, Redis, Apollo*
- Developed a credit score model for NFT/Token backed lending and explorer with **70,000+ page views**.
- Made custom on-chain data analytics API using Redis with backend hosted as a Vercel edge function.
- Established a strategic partnership with SharkyFi, an NFT lending platform with over **$1.4+ billion** in total volume, to integrate our credit scores.

Carbon Credit Tokenization | *Typescript, React, Next.js, Stripe, Prisma, PostgreSQL, GraphQL, Apollo*
- Engineered a web app that allows companies to bridge carbon credits from Gold Standard & Verra, in order to offset their C02 emissions on the Solana blockchain.
- Optimized TypeScript + GraphQL carbon credit tokenization API by splitting into micro-services, with capacity to tokenize of **350+ million** carbon credits.

Code Documentation Chatbot | *Next.js, React, Typescript, Firebase, TailwindCSS*
- Deployed a chatbot trained on XRP Ledger codebase using chatlang.js to create a vectostore wrapper of the indexed documentation.
- Built a next.js app leveraging OpenAI API streaming support & asynchronous real time updates for multiple users.

Medical Record Management Dashboard | *Solidity, Hardhat, Python, Jupyter Notebook, NumPy, pandas, scikit-learn, matplotlib*
- Programmed Solidity smart contracts for managing medical record access among healthcare providers.
- Utilized Python's scikit-learn library to implement AI smar4t diagnosis predictions and data visualizations on patient data.

Technical Skills

Languages: Typescript, Javascript, .Net, Rust, Solidity, Python, HTML/CSS, Java, PHP, SQL, Go, R, Bash
Frameworks:React, Next.js Angular, Vue, Nuxt, Svelte kit, jQuery, Flask, Bootstrap, TailwindCSS
Technologies: Node.js, GraphQL, REST APIs, MsSQL, Prisma, TypeORM, MongoDB, PostgreSQL, Redis, Zustand, Redux, Mob x, Apache Kafka, Git
DevOps: Docker, Jira, Github Actions, Google Cloud, Amazon Web Services (AWS), Vercel, Fly, CI/CD, Terraform