

Khalil Jouaneh

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Education

Queen's University

September 2019 – April 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

Experience

Helius.xyz

Jan 2023 - July 2023

Developer Relations

Remote – Canada

- Provided technical support to developers for optimizing on-chain data pipelines & enhancing performance
- Created repositories/guides for developer onboarding, emphasizing state compression & data indexing

Infograph

May 2022 - August 2022

Fullstack Engineer Intern

Remote – Canada

- 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 by optimizing PSQL queries.
- Added features to React dashboard such as filters, exporting orders as a CSV, and product verification pipeline

Projects

Alphaline - Blockchain Credit Score | *Typescript, React, Next.js, Node.js, Vercel, Prisma, Sphere, PostgreSQL, Redis*

- Built a web app with **50,000+ page views**, enabling DeFi users to check their credit score and gain insight into their historical lending/borrowing history.
- Engineered an on-chain data analytics API using Redis and PostgreSQL with backend hosted as a Vercel edge function.
- Programmed node.js scripts to parse **500k+** transactions, automated via Vercel cron jobs for peak efficiency.
- Utilized state compression to build on-chain cookies, which rewards DeFi users for their on-chain interactions.

Carbovalent | *Typescript, React, Next.js, Stripe, Prisma, Mongo, GCP, Terraform*

- Revamped TypeScript + Node.js carbon credit tokenization API by splitting into micro-services, significantly reducing response time for improved user experience
- 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

Exchange Slotting | *Next.js, React, Typescript, Firebase, TailwindCSS*

- Streamlined the slotting process for over **500 students** at partner exchange institutions with a CSV parser, Firebase authentication, CRUD functionality, and a ranking system
- Programmed **60+** unit tests that cover student allocation, process functionality, data processing and conversion

MedRec | *Solidity, Hardhat, Python, Jupyter Notebook, NumPy, pandas, scikit-learn, matplotlib*

- Programmed Solidity smart contracts for managing medical record access among healthcare providers.
- Researched and built a prototype using Python's scikit-learn library to implement AI smart diagnosis predictions and data visualizations

Technical Skills

Languages: Typescript, Javascript, Rust, Solidity, Python, HTML/CSS, Java, PHP, SQL, Go, R

Frameworks: Express.js, React, Angular, Vue, Next.js, Anchor-lang, Svelte kit, jQuery, Flask, Bootstrap, TailwindCSS

Technologies: Node.js, SWR, GraphQL, REST APIs, MsSQL, Prisma, MongoDB, PostgreSQL, Redis, Zustand, Redux, Mob x, Kafka, Arweave, Git

DevOps: Docker, Github Actions, Google Cloud, Amazon Web Services (AWS), Vercel, Fly, CI/CD, Terraform