Justin Bishop

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Education

Nova Scotia Community College: IT - Programming   2022 - 2024
- *Courses:* Data Structures, Algorithms, Operating Systems, Databases, Networking, Web Development.

Acadia University: Bachelor of Business Administration   2006 - 2010

Projects and Work Experience

Data Engineer | Ethereum Staking ETL Pipeline | Project   Fall 2024 - Present

*Relevant Skills: **Blockchain, Python, Snowflake, DBT, SQL, Dagster, Next.js, FastAPI, Render***
- Engineered a blockchain staking ETL pipeline that processes Ethereum deposits from the Beacon Chain validator smart contract to provide metrics and recent transactions on an orchestration schedule.
- Designed and implemented a data pipeline to extract on-chain data, transform raw transactions, and load structured data into Snowflake warehouses using Python, SQL and the SnowSQL CLI tool.
- Developed business-ready metrics by transforming raw blockchain warehouse data using DBT models.
- Built a FastAPI backend that allows the frontend to display trends retrieved from the DBT metric tables.
- Automated the entire ETL process to deliver near live data using Dagster orchestration schedules.
- Deployed the solution to Render using a multi-service architecture for the API, frontend and Dagster orchestration to separate concerns and allow the services to have their own build deployments.
- View live here: https://ethereum-etl-pipeline-frontend.onrender.com/

Software Engineer | OneYes | Project   Fall 2024 - Present

*Relevant Skills: **Next.js, Node.js, TypeScript, React, Redis, Supabase, Stripe Payments, Vercel***
- Designed and engineered oneyes.xyz, a tech internship job board for IT & Computer Science students.
- Built a robust authentication system to eliminate unauthorized access attempts using JWT validation, Supabase authentication, Google reCAPTCHA, and database row-level security (RLS) policies.
- Architected custom Stripe payment integrations to automate 100% of the payment process using the Stripe SDK, authorized payment intents and the secure handling of session data.
- Designed server-side REST APIs to fully automate the application and job posting process through programmatic email notifications and Stripe payment webhook events that trigger CRUD operations.
- Implemented Redis-based rate limiting for bot activity on the email form using a sliding window check.
- Developed automated CI/CD test coverage to protect our business logic and cover edge cases with Jest.

Full Stack Developer | Webisoft | Montreal, Quebec - Remote   Summer 2024

*Relevant Skills: **Blockchain, Smart Contracts, Cairo, Automated Testing***
- Developed Cairo language smart contracts enabling users to swap currency pairs within a liquidity pool.
- Integrated one-click user onboarding to reduce user friction on our platform through wallet abstraction.
- Placed top 10 with my Webisoft team at the Starknet Hacker House in Bangkok, Thailand (Nov. 2024).

Software Engineer Intern | Astaria | Los Angeles, California - Remote   Spring 2024

*Relevant Skills: **Blockchain, TypeScript, GraphQL, GitHub CI/CD***
- Developed GraphQL queries to aggregate leaderboard reward points using TypeScript and TypeORM.
- Deployed 8 cryptocurrencies used for over-collateralized loans by sourcing on-chain token metadata.
- Wrote unit tests for server-side leaderboard queries that were merged into the CI/CD pipeline using Jest.

Software Engineer Intern | Prepped LLC | Tampa, Florida - Remote Summer 2023
Relevant Skills: Automated Testing, Jest, PHP Laravel
- Cleaned up integration tests on the delivery driver system by updating old test data with PHPUnit.

Software Engineer Intern | DiveInfo Lifeline | Halifax, Nova Scotia - Remote Spring 2023
Relevant Skills: System Design, SDLC, MVC, .NET, C#
- Developed a CSV search algorithm in C# for deep-sea divers to quickly retrieve documentation.

Extras

AWS Cloud Practitioner Certification (2024)

NSCC Board of Governors Award (2024): Outstanding academic achievement and volunteer involvement.

NSCC Student Association President (2024) & Vice President of Communications (2023)