Dmitriy Kagno

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Work Experience:

Software Engineer @ Ecogy Energy   *October 2021 - Present*

- Rewrote the entire client side API to use TypesScript and TanStack Query hooks; cut the number of improper type implementation support tickets by more than half and reduced average cost of lambda invocations by 15% with better response caching.
- Designed and built a version control system for the engineering team's CAD drawings; hosted on AWS, the system enforced strict ownership rules and maintained an update ledger that completely eliminated data loss caused by concurrent file overwrites.
- Implemented batch processing for PDF generation in Energy and Finance microservices by using an Amazon SQS queue to trigger individual generation requests that scale to volume and reduced processing time from minutes down to less than ten seconds.

Personal Projects:

Personal Financial Dashboard   **Source Code**

- Created a financial dashboard that uses the Plaid API to pull data from different financial institutions and gives me quick access, in one central location, to all of the relevant information about my personal bank accounts, credit cards and stock brokerages.
- Set up a Pocketbase instance inside of a docker container running on my home server to create an extra layer of security around my institution data and access tokens.

Sveltekit Auth   **Live** | **Source Code**

- Built a session based authentication workflow using SvelteKit as a full-stack framework and Lucia as an auth library for managing authorization and authentication state while storing user sessions and tokens on the cloud inside of a PlanetScale database.
- Handled form errors, data validation and progressive enhancement by leveraging Zod and Superforms with a focus on maintaining strict type safety between server and client.

Additional Info:

Tools: TypeScript, Tailwind, React, AWS, SvelteKit, Astro, Git, GitHub
Languages: Fluent in English, Russian and Japanese
Interests: Language learning, Automation, Optimization, Finance, Renewables and Urbanism

Education:

B.S Computer Science and Information Security   *John Jay College of Criminal Justice*