Turcan Cicek

Software Engineer

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SKILLS

Javascript (ES6+), Typescript, Python, Django & Django REST Framework, FastAPI, GraphQL, React, Redux, Bash, Relational Databases (PostgreSQL), Docker, Document Databases (MongoDB), Unit Testing (Jest, pytest), Functional & Object-Oriented Programming

TECHNICAL EXPERIENCE

Ribbon - *Software Engineer*   **2022 - Present**

- Collaborated & iterated with product managers, designers to build data-driven financial solutions for the proptech market
- Implemented server-side GraphQL, Kafka, & Celery best practices within our applications to improve async performance
- Authored technical specifications & lead their implementation within the Financial Products engineering team
- Owned internal & external user-facing front end features, developed using React, Typescript, & Apollo GraphQL
- Performed database & code profiling to determine ideal field usages for PostgreSQL ORM-based features
- Investigated & helped perform major version upgrades of graphql core api versions 2.x into 3.x within our applications
- Rewrote & refactored legacy services to meet code standards as well as increase performance of frequently used services
- Onboarded & mentored colleagues, helping familiarize engineers with Django best practices, Docker, & the schema
- Implemented a standardized set of debugging configurations for the engineering org, communicated through org-wide reviews
- Conducted engineering interviews up to the senior level in coding & system design, in order to build a stronger engineering team
- Refactored legacy Javascript react components into Typescript components to standardize & improve developer experience

Taconic Biosciences - *Software Applications Developer*   **2021 - 2022**

- Optimized Django ORM queries at scale by analyzing PostgreSQL statistics & eliminating N+1 calls through selective joins & annotations to reduce average query time by up to 90% on high volume screens
- Facilitated pairing, code reviews, & technical design sessions to mitigate knowledge siloing within the App Dev Team
- Designed mixins to track minute updates of models by leveraging the Django content type framework & PostgreSQL JSON fields
- Developed & maintained vendor API clients for use throughout the organization & within integrations between internal systems
- Implemented CI/CD, minimizing development time spent manually testing, building, & releasing deployments using Azure DevOps
- Developed an event-driven integration tool using FastAPI, PostgreSQL, Docker to initialize background processes between internal systems over Azure Service Bus, utilizing custom queues & topics to segregate services & notifications
- Analyzed requirements gathered from stakeholders in bioinformatics & logistics divisions to create actionable tasks & stories
- Built react components for use across logistics & laboratory management tools, enhancing page load times for users by transitioning from formset-based templates to asynchronous dashboards with state managed by the hooks API

Open Bracket   **2020 - 2021**

- Deployed decoupled applications harnessing OTP via the Elixir Supervisor & GenServer APIs to dynamically create & transform data in the bracket generation service, & to manage supervision trees for client-initiated processes
- Utilized Phoenix Channels to maintain concurrent processes & develop a real-time web client over the TCP WebSocket protocol
- Leveraged Ecto to develop a persistence layer to maintain a single source of truth with PostgreSQL in a heavily concurrent system, & for data recovery when clients unexpectedly lose socket connections in production

CUNY Research Foundation, New York, NY - *Technical Specialist IV*   **2018 - 2019**

- Utilized NumPy to optimize supply ratio data for manufacturing process, establishing pipeline for quality control & analysis teams
- Configured Samba to allow for file system events to be read by Linux-based analysis servers on Windows-based hardware by networking the two systems over the SMB protocol, & automating analytical processes
- Organized & facilitated the creation of product documentation for clients by documenting production methods, scheduling procedural iterations, & delegating any analytical work required by client

Center for Molecular Imaging, Richmond, VA - *Scientist II*   **2016 - 2018**

- Implemented a pipeline to analyze manufacturing output by leveraging file system events to trigger analytical functions, & xargs to delimit megabytes of data, eliminating manual delimiting, allowing for the team to focus on iterating experiments
- Utilized Matplotlib & Python to visualize production models & regression plots for use in published research
- Designed preliminary experiments & contributed written procedures to grant proposals for medical isotope production that is now funded by the US Department of Energy
- Composed deliverable requirements gathered from non-technical clients, translating to actionable tasks for the production team

EDUCATION

CUNY Graduate Center, New York, NY *PhD Candidate*   **2019**

CUNY Hunter College, New York, NY *Bachelor of Arts in Chemistry, Minor in Mathematics*   **2011 – 2016**

INTERESTS

going on hikes with my dogs, rock climbing, biking around Jackson Heights, vintage soviet watches, playing drums, baking banana bread