

# Kayra Gemalmaz

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## EXPERIENCE

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### Backend Software Engineer

September 2021 - January 2023

Uplift | San Francisco, CA

- Contributed to many different parts of the company as a software engineer working on infrastructure and architecture, data platform, and finance and capital respectively, working mostly on building microservices to simplify data access patterns across operational databases and services, writing automation scripts to help users manage complicated business processes, and developing reliable and stable CI/CD processes.
- As a software engineer in the infrastructure team:**
  - Developed resolvers for a new GraphQL service that acts as an interface to multiple AWS resources across multiple accounts, which allows users to query and join data from different databases and microservices.
  - Added multithreading to our identity service, increasing the speed for querying loans by almost 75%.
  - Developed a new real time metrics microservice using operational data and AWS Neptune. The graph based storage and logic for fraud metrics increased performance from hours to seconds, allowing on-demand metrics.
  - Created a PRD for a new method on ingesting and processing snapshots from our loan tape that utilized CDC to reduce extra processing for more than 95% of the loans in the companies' portfolio that are static.
  - Developed features for our specialized job management service, such as automatically enforcing compliance with our CI/CD pipeline and automatic setup for some AWS Batch specific configurations.
- As a software engineer in the platform team:**
  - Developed new features for the finance platform, such as filtering and synchronization of the companies' financial data from its partners like Stripe and Marqeta into an on-demand database for downstream ingestion.
- As a software engineer in the finance and capital team:**
  - Participated in this year's Databricks conference and developed scripts to utilize the platform for ETL tasks for end users like investor report generation and validation.
  - Worked on the validation for the Loan Tape, helping create version 2 on the Databricks platform.
  - Worked on automating capital processes like charged off debt sale, securitization and whole loan sale.

### Full Stack Software Engineer

April 2019 - June 2021

UNITRANS | Davis, CA

- Developed and maintained the internal website for the company, built on React, Django and SQLite. Worked in a team of 4 and served ~200 users. Supported many features like payroll, shift assignment, employee rewards and tax reports.
- Used Django's third party optimization and debug tools to do performance optimizations on database query lookups, which increased the most common queries done by our users by more than 90%.
- Designed and developed a modern SPA frontend using React in parallel with Django, streamlining the user experience and improving accessibility for mobile devices for users who needed to access the page during bus operation.
- Created scripts to automate common processes like end-of-year award distribution, accelerating some processes by weeks.

### Freelance Web Developer

May 2014 - June 2017

Gemka | Istanbul, TR

- Developed and maintained static web pages for local companies that wanted to reach out to customers online.
- Provided hosting and maintenance for pages with features like reservations, invoicing and automated newsletters.

## SKILLS

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**Proficient:** C, C++, Python, Javascript, Typescript, Java, SQL | Django, Express, Pyspark, Node.js, React, Next.js | Postgres, MSSQL, Redis, MongoDB | Git | AWS, GCP | Docker | GraphQL

**Familiar:** GO, Ruby, Lisp | Elixir, Ruby on Rails | Azure | Kubernetes | Hadoop

## EDUCATION

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University of California, Davis | Computer Science & Computer Engineering

September 2017 - June 2021

- Focused on OOP, Operating Systems, Low Level Programming, Circuit Design and Analysis, Microarchitecture, Programming Languages, Software Engineering, Relational Databases, Web Development and AI/ML.