

TECHNICAL EXPERIENCE

Klaviyo Jun 2024 — Present
Back-end Software Engineer / Events Pipeline Boston, MA

- Enhanced a distributed events pipeline handling 5B+ events daily (~50K QPS), improving P99 latency by 7% for hundreds of thousands of customers
- Directed migration of a critical Kafka cluster to a dedicated team, coordinating documentation, scripts, and training to enable independent ownership, boost stability, and reduce Kafka-related incidents by ~40%
- Optimized a high-throughput pipeline component with asynchronous Python, Redis, and DynamoDB, using batched requests to improve scalability and cut infrastructure costs
- Developed Airflow/EMR tooling to identify and backfill missing downstream events, reducing engineer recovery time, and preventing customer-facing data inconsistencies

Arcavios Mar 2023 — Jun 2024
Open Source Personal Project Remote

- Building a collection of tools for managing Magic: the Gathering data
- TODO: add bullets here about Scooze

Kyruus Mar 2019 — Feb 2023
Senior Full-stack Software Engineer / API Boston, MA

- Delivered the v2 API for our next-generation platform, enabling customer integrations with provider data

Senior Back-end Software Engineer / Pipeline Operations

- Created tools to automate the customer onboarding process, reducing engineering costs and accelerating delivery time
- Architected and implemented a Jenkins Pipeline-based system to replace a head-of-line blocking Jenkins job workflow, improving pipeline reliability, concurrency, and retryability
- Reduced load on internal and external APIs by 50% by eliminating redundant data retrieval steps in the pipeline process

Back-end Software Engineer / Customer Onboarding

- Worked closely with new customers to onboard their providers onto our pipeline
- Standardized customer data, reducing nightly pipeline failures by ~20%

PrimePay Jan 2018 — Mar 2019
Back-end Software Engineer / Tax Filing West Chester, PA

- Refactored a legacy tax filing engine to manage and file payroll taxes for tens of thousands of clients
- Designed data visualization and data conversion tools for state and federal tax forms and files (PDF, TXT, XML)

SKILLS

Languages	Python, SQL, NoSQL, JavaScript, Bash, C#
Frameworks & Libraries	Pydantic, FastAPI, Django, Leaflet, LINQ
Platforms	AWS (EC2, RDS, EMR), PostgreSQL, MySQL, MongoDB
Tools	Git, JIRA, Kafka, Redis, Docker, Kubernetes, Terraform, Airflow, Jenkins, \LaTeX
Concepts & Practices	REST API, RPC, Event-Driven Architecture, Object-Oriented Design, Test-Driven Development

PROJECTS

Streamlabs Chatbot	Built a plugin to support automatic handling of picture-in-picture replays during livestreams	Spring 2022
G-Player Visualization Tool	Research Assistant for Dr. Alessandro Canossa	2015 — 2016
Cell Phone Intervention Trial for You (CITY)	Research Assistant for Dr. Stephen Intille	Summer 2013

EDUCATION

Bachelor of Science in Computer Science, Northeastern University

ACTIVITIES AND INTERESTS

Volunteer Fire Lookout	2024
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