

TECHNICAL EXPERIENCE

Klaviyo <i>Back-end Software Engineer / Events Pipeline</i>	Jun 2024 — Present <i>Hybrid, Boston, MA</i>
<ul style="list-style-type: none">Enhanced a distributed events pipeline handling 5B+ events daily (50K QPS), boosting P99 SLA coverage by 7% for hundreds of thousands of customersDirected migration of a critical Kafka cluster to a dedicated team, coordinating documentation, scripts, and training to enable independent ownership, improve stability, and reduce Kafka-related incidents by 10%Optimized a high-throughput pipeline component with asynchronous Python, Redis, and DynamoDB, using batched requests to improve scalability and cut infrastructure costsDeveloped Airflow/EMR tooling to identify and backfill missing downstream events, reducing engineer recovery time and preventing customer-facing data inconsistencies	
Kyruus <i>Senior Full-stack Software Engineer / API</i>	Dec 2022 — Feb 2023 <i>Remote</i>
<ul style="list-style-type: none">Delivered the API for our next-generation platform, enabling customer integrations with provider data	
<i>Senior Back-end Software Engineer / Pipeline Operations</i>	Dec 2020 — Dec 2022 <i>Remote</i>
<ul style="list-style-type: none">Created tools to automate the customer onboarding process, reducing engineering costs and accelerating delivery timeArchitected and implemented a Jenkins Pipeline-based system to replace a head-of-line blocking Jenkins job workflow, improving pipeline reliability, concurrency, and retryabilityReduced load on internal and external APIs by 50% by eliminating redundant data retrieval steps in the pipeline process	
<i>Back-end Software Engineer / Customer Onboarding</i>	Mar 2019 — Dec 2020 <i>Boston, MA</i>
<ul style="list-style-type: none">Worked closely with new customers to onboard their providers onto our pipelineStandardized customer data, reducing nightly pipeline failures by 20%	
PrimePay <i>Back-end Software Engineer / Tax Filing</i>	Jan 2018 — Mar 2019 <i>West Chester, PA</i>
<ul style="list-style-type: none">Refactored a legacy tax filing engine to manage and file payroll taxes for tens of thousands of clientsDesigned data visualization and data conversion tools for state and federal tax forms and files (PDF, TXT, XML)	

SKILLS

Languages	Python, SQL, NoSQL, HTML, CSS, Javascript, C#
Tools	Git, MongoDB, PostgreSQL, AWS (Lambda, EC2, RDS, CloudFront, etc.), Jenkins, \LaTeX
Frameworks	FastAPI, Pydantic, Flask, Chalice, Leaflet, LINQ
Concepts	REST API, object-oriented design, ETL, test-driven development, Agile

PROJECTS

Arcavios — Building a collection of tools for managing Magic: the Gathering data	Jun 2023 - Present
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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