Alex Morgan

Backend Engineer

+1-555-0142
alex.morgan@example.com
alex-morgan
/alexmorgan

Skills

Programming Language: Scala, Python, Java, SQL, Bash
Database: BigQuery, PostgreSQL, MySQL, MariaDB, SQLite, MongoDB, SQLAlchemy
Frameworks/Technologies: Kafka, Spark, Django, FastAPI, Monix, Scalatest, Pandas, Numpy, Selenide, TestNG, REST API
CI/Workflow/Cloud: Airflow, Github Action, Git, Travis CI, Docker, Google Cloud Platform (GCP)
Web: PHP, HTML5, CSS3, JavaSrcipt, JQuery, AngularJs, Meteorjs, CMS

Experience

Northwind Analytics — Jan. 2021 — Present
Backend Engineer — *Austin, USA*

- Rebuilt the ingestion pipeline for a 10M-events/day service, cutting end-to-end latency from 40 minutes to under 3.
- Introduced schema-validated Kafka topics, eliminating a class of downstream deserialization failures.
- Mentored two junior engineers and led the team's weekly architecture review.

Scala | Python | Java | Apache Spark | Flink

Bramwell Systems — June 2017 — Dec. 2020
Software Engineer — *Chicago, USA*

- Migrated a monolithic OSGi service to a modular Camel-based integration layer, reducing deploy time by 60%.
- Built the team's first automated regression suite, catching integration regressions before release.
- Owned the on-call rotation for the billing subsystem across three product launches.

Java | Apache Karaf | JBoss | OSGi | Apache Camel | SOA | SQL | JUnit | TestNG | Log4j

Halden Digital — June 2016 — May 2017
Full-Stack Developer — *Chicago, USA*

- Built and shipped an internal QA dashboard used by three product teams.
- Wrote the initial Selenium/Appium test harness for the mobile app.
- Paired with design to implement the company's first accessible component library.

Java | Python | Selenium | Selenide | TestNG | JUnit | Appium | IntelliJ Idea | Eclipse | Maven

Education

University of Illinois — Sept. 2014 — June 2016
MSc in Computer Science — *Urbana-Champaign, USA*

University of Illinois — Sep. 2009 — Dec. 2013
BSc in Computer Science — *Urbana-Champaign, USA*

Training & Certification

Coursera — June 2020

- Data Engineering with Google Cloud Professional Certificate

Open Source Projects

SE-Resume

- A LaTeX CV template (this template's upstream).

streamlint

- A lightweight schema linter for streaming data pipelines.

Selected Publications

[1] **2023**. "Incremental Validation for Streaming ETL Pipelines". In: *Proceedings of the Regional Conference on Data Engineering*, pp. 112–119.

Awards & Representative Experience

Awards

- Best Graduating Student Award — Illinois, 2016
- 1st Place — Regional Data Engineering Hackathon — Chicago, 2018
- Speaker, Regional Conference on Data Engineering — Chicago, 2023