

ALEXANDER MORALES

Senior Software Engineer

+1-929-189-8182 • alex.morales@techmail.com • [linkedin.com/in/alexmorales-dev](https://www.linkedin.com/in/alexmorales-dev) • Dallas, TX

Summary

Seasoned Software Engineer with over 12 years of experience in backend development and cross-functional project delivery. Proven track record in designing and implementing scalable, high-performance systems using modern frameworks and cloud-native architectures. Adept at leading technical initiatives, automating complex data workflows, and collaborating with multidisciplinary teams to drive business impact. Passionate about transforming requirements into robust, maintainable code with clean architecture, strong testing practices, and continuous improvement mindset.

Skills

Programming Languages: Python · JavaScript · TypeScript · SQL · Bash

Frameworks & Libraries: FastAPI · Node.js · Pandas · React (basic) · Express.js

Cloud & Infrastructure: AWS (Lambda, EC2, S3) · Docker · Jenkins · CI/CD · Linux · Microservices

Databases: PostgreSQL · MongoDB · SQL Server

Data & BI Tools: Power BI · Tableau · Excel · VBA

Dev Tools & Version Control: Git · GitHub · Bitbucket · Jira · VS Code

Methodologies: Agile · Scrum · TDD · Code Review Practices

Experience

TechNova Systems (*Industry: Cloud-based SaaS provider*)

Dec 2019 – Present

Dallas, TX

Senior Software Engineer & Tech Lead

- Spearheaded the migration of legacy monolithic architecture to microservices, increasing deployment frequency by 40%.
- Developed backend services in Python (FastAPI) and Node.js, supporting 1M+ monthly transactions.
Designed a robust cost-tracking system using PostgreSQL and Tableau, helping reduce infrastructure expenses by 8%.
Mentored 4 junior developers and implemented standardized code review processes.

Technologies: Python · FastAPI · Node.js · PostgreSQL · AWS Lambda · Docker · Tableau · Git · Jenkins · REST APIs

DigitalCrafts Corp (*Industry: Enterprise Software Solutions*)

Jan 2017 – Nov 2019

Dallas, TX

Software Engineer

- Implemented automated reporting APIs that reduced manual operations by 60%.
Improved query performance by optimizing SQL and refactoring backend endpoints, resulting in 15% faster response times.
- Contributed to internal DevOps pipeline improvements using Jenkins and Bash scripting.

Technologies: Node.js · SQL · Bash · Jenkins · MongoDB · Power BI · Git · REST APIs

Innotek Media Group (*Industry: Media & AdTech*)

Apr 2013 – Dec 2016

Dallas, TX

Junior Developer / Data Analyst

- Automated daily data ingestion jobs from 6+ sources (JSON, XML, CSV), handling 500K+ records/day.
- Created Python scripts to clean and transform data for marketing analytics dashboards.
- Maintained and optimized ETL pipelines; documented 300+ integration jobs.
- Collaborated with QA to build test suites for validation of large-scale data.

Technologies: Python · Pandas · Excel VBA · SQL · JSON/XML · ETL Pipelines · Linux · Shell Scripting · Tableau

Education

University of Wisconsin – Wisconsin

M.Sc. in Computer Science

2012 – 2013

University of Wisconsin – Wisconsin

B.Sc. in Information Systems & Data Science

2008 – 2012

Courses & Certificates

- AWS Certified Developer – Associate – Amazon, 2022
 - PMI Agile Certified Practitioner (PMI-ACP) – PMI, 2019
 - Applied Data Engineering with Python – Coursera, 2020
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Interests & Hobbies

- **Open Source Contribution**
Actively contribute to GitHub projects related to ETL, CLI tools, and Python libraries.
- **Cycling & Nature Hikes**
Recharging with long-distance bike rides and hikes; nature helps clear the mind for deep work.
- **Tech Mentorship & Workshops**
Passionate about sharing knowledge through internal talks and mentoring aspiring developers.