Mark Kecko

Senior Software Engineer

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Summary

Senior Software Engineer with 15+ years of experience designing, building, and scaling high-traffic, data-driven web platforms. Deep expertise in Python/Django ecosystems, multi-tenant SaaS architecture, complex data integrations, and performance-focused backend systems. Proven track record leading platform modernization, optimizing developer workflows, and delivering resilient systems powering 100+ production sites.

Core Skills

Languages & Frameworks

- Python, Django, Django ORM, management commands
- FastAPI, Flask
- Celery
- JavaScript, TypeScript
- React, jQuery
- HTML5, CSS3, Bootstrap, responsive UI

Databases, Caching & Geo

- PostgreSQL, MySQL, SQL Server
- Django migrations, query optimization
- Redis, Memcached
- GEOS / GIS-style polygon operations (city, county, geomarket boundaries)

Data & Analytics

- Python data analysis with Pandas
- Distributed data processing with PySpark
- ETL workflows, data normalization, and reporting pipelines

DevOps & Infrastructure

- Docker / Podman local stacks (Postgres, Nginx, Redis, Memcached)
- Nginx, cron-based scheduling
- Git-based multi-repo environments
- OpenTelemetry, Django Debug Toolbar
- Custom performance and query middleware

Frontend Tooling & Build Systems

- npm, just (command runner)
- Gulp-based theme builds, Webpack
- Sphinx documentation

Cloud & Integrations

- AWS, Azure, GCP
- HubSpot (Forms API + tracking)
- Salesforce, Lasso

Architecture & Domain Expertise

- Multi-tenant CMS platforms, High-traffic multi-tenant architecture
- MLS imports and inventory systems
- Data inheritance and normalization

Professional Experience

Software Engineer

Oneil Interactive
September 2025 – Present

- Develop and maintain a multi-tenant Django CMS powering 100+ homebuilder websites.
- Standardized cross-theme AJAX filtering (communities, plans, specs), implementing URL-state persistence, infinite scroll, reset logic, and price-range sliders.
- Built and supported complex CRM, marketing, and ERP integrations with environment-safe behavior (HubSpot, Salesforce, NewStar, others).
- Designed and maintained scheduled XML/BXML export pipelines for Zillow and major real-estate portals.
- Led performance and UX improvements by resolving N+1 queries, optimizing caching and data inheritance logic, and unifying pagination and ordering behavior across themes.
- Implemented polygon-based "nearby communities" search using city, county, and geomarket boundaries.

Senior Software Engineer

DataStream Insurance
February 2025 – August 2025

- Monitored and optimized production systems to ensure availability and performance.
- Improved product workflows to streamline application routing and customer experience.
- Enhanced address verification logic to filter invalid business addresses.

Aftermarket Analytics Consultant

Pratt & Whitney
August 2024 – January 2025

- Designed API integrations with third-party vendors to optimize engine work scope and shop time utilization.
- Implemented automated email alerts for missing or incomplete engine work scope data.
- Identified and corrected systemic date discrepancies impacting engine event reporting and service timelines.

Senior Application Developer

Collaborative Solutions / Cognizant
February 2023 – May 2024

- Migrated a desktop payroll reconciliation system to a cloud-based Django application on Azure.
- Defined and documented development standards and environment setup across the

project.
- Built ETL workflows, testing utilities, and Docker startup scripts to rapidly provision developer environments.

Senior Software Engineer - CIO / Cybersecurity

IBM
June 2021 – October 2022

- Reskinned the Beekeeper compliance application using IBM's W3DS design system.
- Upgraded ingestion pipelines to Microsoft Intune Export API using Django, Celery, and RabbitMQ.
- Built management commands to analyze, repair, and backfill missing data in production systems.
- Tested and deployed applications in IBM Hybrid Cloud using Django unit tests, flake8, and mocks.

Technical Lead / Senior Software Engineer

Fadner Media Enterprises
September 2003 – May 2021

- Built and maintained a shared Django publishing platform powering MediaPost, SoccerAmerica, AI-AP, and IllustrationSource.
- Managed infrastructure, availability, and performance using New Relic and Google Analytics.
- Led migration from MS SQL Server to MySQL, reducing TCO and improving system reliability.
- Directed multiple ad-server migrations across in-house and third-party platforms.
- Designed and implemented MediaPost Awards CMS handling submissions, judging, and public display.
- Brought large-scale email delivery in-house, collaborating with MessageSystems and Dell to deliver millions of emails daily.
- Ensured 24/7 availability of all production systems.

Education

University of Connecticut
Bachelor of General Studies (B.G.S.), Information Technology

Additional

- Marathon runner
- Football coach
- Certified Personal Trainer