

OLZHAS SHAIKENOV

Senior Full-Stack Engineer with 10+ years delivering scalable web platforms and high-impact features. Specialized in owning core services, modernizing legacy systems, and integrating AI capabilities using React/Next.js, Node.js, PHP, AWS, and Kubernetes. Focused on performance, reliability, and business outcomes. USA CITIZEN

Languages	TypeScript, Python, Java, Golang	Frontend	React, Next.js, Redux, TailwindCSS
Backend	Node.js, NestJS, Laravel, Spring Boot	Databases	PostgreSQL, MySQL, MongoDB, Redis
DevOps / Cloud	AWS, Docker, Kubernetes, Helm, Argo, CI/CD AWS CloudFormation,, Circleci, GithubActions	Other	GraphQL, ElasticSearch/Solr, ETL, System Monitoring, Machine Learning, API Design, Cloud Migration, fraud detection, numpy, pandas, LLMs

SENIOR FULL STACK SOFTWARE ENGINEER

Storyblocks. Inc. Arlington, VA

February 2021 – March 2026

Contributors & Content Team

- Owned AI feature development by integrating Runway AI and ElevenLabs APIs into the React/Next.js frontend, delivering multiple user-facing video and voice capabilities.
- Took ownership of core API services; introduced production-grade rate limiting and delivered major admin panel enhancements that directly increased enterprise customer retention and revenue.
- Led migration of legacy video encoding workflows to a scalable architecture using FFmpeg, Node.js, Inversify, and Node-Resque, improving reliability and processing speed.
- Modernized Docker builds with optimized layers, eliminated critical security vulnerabilities, and reduced technical debt across the encoding service.
- Spearheaded content pipeline optimization using Express and Node.js, significantly increasing media library ingestion throughput.
- Built and maintained a shared clients repository in the monorepo that auto-generates strongly-typed TypeScript clients from OpenAPI specs, reducing integration effort across teams.
- Mentored junior engineers and introduced AI-assisted development tools (Cursor, Claude, Serena MCP), measurably improving team velocity and code quality.

Core Services Team

- Migrated contributor upload system from legacy FTP to an event-driven architecture using TypeScript, Node.js, Node-Resque, AWS Transfer Family, and S3.
- Owned payout services modernization, collaborating directly with Finance to implement Avalara tax compliance (React + PostgreSQL).
- Led weekly Next.js architecture knowledge-sharing sessions for the engineering team.

Growth & API Team

- Released high-impact features, executed A/B tests, and implemented feature flags while adding 2FA authentication to eliminate account sharing and abuse (PHP + React).
- Migrated and scaled the public API from v1 to v2: added new routes and resources, improved documentation, and introduced observability with Honeycomb (Kubernetes, Helm, Postman).
- Developed a shared TopNav component library using Tailwind CSS, improving UI consistency across the platform.

SENIOR SOFTWARE ENGINEER (AWS, ETL, Python)

Verato, Inc. McLean, VA

September 2016 – February 2021

Data Science Team

- Developed Medicare & Medicaid claims fraud detection algorithm using Machine Learning, Python, and Google APIs within an ETL pipeline as a successful Proof of Concept.
- Designed and implemented IRS & Treasury payer/payee fraud detection algorithms using Python, Machine Learning, and ETL processes; project spun out into a standalone company.
- Built ETL pipeline integrating Experian ConsumerView 360 data with a major hotel chain using Apache NiFi, AWS S3, EC2, and PostgreSQL.
- Led major initiative to resolve false positives in TransUnion credit data injection by optimizing the entity matching algorithm (Java, Apache Solr, Redis, MongoDB).
- Designed and developed a scalable address normalization service using Java, Python, Apache Solr, PostgreSQL, and Redis.

SOFTWARE ENGINEER (JAVA)

Spinner Consulting, LLC. Sarasota, FL

Feb 2016 - Jun 2016

- Designed and delivered a production-grade Java XML validation library (JUnit, Maven) that processed and validated headers per strict Intelligence Community specifications and information security requirements (ODNI), enabling seamless data integration across enterprise systems

PROJECT MANAGER

Outroop, Inc. McLean, VA

Mar 2015 - Nov 2015

ASSOCIATE PARTNER

Lincoln Group, LLC. Washington DC

May 2013 - Feb 2015

MANAGER

Suzer and Friedman, LLC. Washington, DC

May 2012 - Jun 2013

FINANCIAL PLANNING ANALYST

Ameriprise Financial, Inc. Fairfax VA

May 2008 - Nov 2011

CFA Level 1

EDUCATION

Core Infrastructure; Google Cloud Platform – *Online*

Building Scalable Java Microservices with Spring Boot and Spring Cloud – *Online*

Python Full Stack Bootcamp, Thinkful – *Online 2015*

Chartered Financial Analyst, Level 1. – *Washington, DC 2014*

Information Systems, Kazakh State University, Bachelorette – *Almaty, 2006*

HOBBIES

Fishing: Caught fish with my daughter **Woodworking:** Built a table, restored antique chair

Gardening: Grew tomatoes **Running:** Completed the Richmond Marathon