
STANISLAV CHERNOMORCHENKO

STAFF ENGINEER | REACT, GOLANG, NODE.JS & SCALABLE MICROSERVICES & AI-DRIVEN APPS

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WORK HISTORY

Senior Software Engineer, 07/2019 - Current

DXC Technology – Greater Los Angeles, California

Designed and developed distributed microservices and full-stack systems for enterprise-grade investment platforms, powering, used by thousands of financial professionals managing multi-billion-dollar portfolios.

- Led architecture and implementation of distributed microservices using **Node.js, Golang, TypeScript, REST, GraphQL, gRPC, and event-driven patterns**, ensuring fault-tolerant, observable, and scalable systems across cloud environments.
- Built and optimized full-stack applications across web and mobile using **Next.js, React, Angular, React Native, Flutter, TypeScript, SSR/SSG, and modern design systems**, delivering fast, accessible, ADA-compliant experiences with seamless feature parity.
- Played a key engineering role in launching **12+ Capital Group ETFs, including CGCP, CGBL, and others**, developing high-performance backend infrastructure to support **real-time data pipelines, compliance workflows, trading data, advisor tools, and investment dashboards**.
- Architected and deployed cloud-native infrastructure on **AWS Lambda, ECS, Fargate, EC2, S3, CloudWatch, API Gateway, RDS, DynamoDB, and GCP**, ensuring **99.99% uptime** and smooth CI/CD workflows using **Terraform, GitHub Actions, Docker, and Kubernetes-based deployment patterns**.
- Built and optimized scalable APIs using **Node.js, Express, NestJS, Apollo Server, GraphQL Federation, REST APIs, OAuth2, JWT, and API Gateway patterns**, reducing API latency and improving integration with advisor tools, investment dashboards, and enterprise data services.
- Delivered SEO-optimized, cross-platform applications that improved accessibility, onboarding speed, and global reach through **server-side rendering, edge-ready frontend architecture, performance optimization, and modern frontend frameworks**.
- Improved database performance by **20%+** through aggregation tuning, indexing strategies, query optimization, schema design, and caching strategies across **MongoDB, PostgreSQL, Redis, and cloud-native data stores**.
- Integrated observability tooling including **Splunk, Datadog, Prometheus, Grafana, OpenTelemetry, and structured logging**, reducing MTTR by **35%** through centralized monitoring, distributed tracing, intelligent alerting, and production diagnostics.
- Explored and applied **large language models, AI copilots, and generative AI workflows** using **OpenAI API, Anthropic Claude, Azure OpenAI, Google Gemini, LangChain, LangGraph, LlamaIndex, vector databases, embeddings, RAG pipelines, prompt engineering, and agentic AI patterns** to accelerate developer productivity and prototype AI-assisted investment research workflows.
- Contributed to AI/ML engineering initiatives involving **data preprocessing pipelines, model integration, embedding generation, semantic search, document intelligence, retrieval-augmented generation, evaluation workflows, and experimentation with generative AI for client-facing digital experiences**.
- Prototyped AI-powered advisor and research tools using **LLMs, function calling, tool use, structured outputs, vector search, Pinecone/Weaviate/FAISS-style retrieval patterns, model orchestration, and AI-assisted summarization of financial content**.

- Applied modern AI developer tooling including **GitHub Copilot, Cursor, Claude Code, OpenAI Codex-style workflows, prompt libraries, AI-assisted code review, test generation, documentation automation, and internal productivity agents** to improve engineering velocity and reduce repetitive development effort.
- Mentored junior engineers, enforced engineering standards, led cross-functional technical initiatives, and contributed to architectural reviews across **investment platforms, cloud infrastructure, AI experimentation, frontend architecture, and high-impact enterprise domains**.

Senior Software Engineer, 11/2018 - 07/2019

Deutsche Bank – Remote

- Designed and developed the client interface for Deutsche Bank's investment products portal using React and TypeScript.
- Led a prototype project that automated internal workflows, reducing manual labor by 50% in 8 months.
- Architected micro-frontend components, improving UI build time by 35% and enhancing cross-team collaboration.

Lead Frontend Developer, 10/2017 - 11/2018

Macquarie Group – California

- Led the frontend migration of the Macquarie Global Clearing System to Angular 5, enhancing development speed and maintainability.
- Developed high-load, data-intensive UI components, achieving a 20-25% performance improvement under heavy load.
- Introduced PrimeNG as the core UI library, reducing custom code by approximately 30% and accelerating component delivery.

Senior Javascript Developer, 06/2016 - 06/2017

Montway Auto Transport – Sofia

- A team of friendly and experienced people focused on delivering high-quality software products. Working closely with our exclusive partners, we gather deep knowledge about their industry and workflow, understanding the problems in details. To come up with the best solution, we iterate through research, design, prototype, development, and analysis.

EDUCATION

Bachelor of Science: Electrical, Electronics And Communications Engineering, 2013

Dnepropetrovsk State Technical University - Dnepropetrovsk

CERTIFICATIONS

MIT Professional Education - Applied Data Science Program: Leveraging AI for Effective Decision-Making, 05/2024

SKILLS

- **Frontend & Cross-Platform:** JavaScript, TypeScript, Node.js, React, Next.js, Angular 2+, Redux, React Native, Flutter, SSR/SSG, ADA Accessibility, Responsive UI, Design Systems
- **Backend & API Design:** Golang, Node.js, Express, Sails.js, REST APIs, GraphQL, Apollo Server, WebSockets, gRPC, Async Messaging, RabbitMQ, Kafka, Event-Driven APIs, API Gateway Patterns
- **AI / LLM Engineering:** OpenAI API, Anthropic Claude, Azure OpenAI, Google Gemini, Meta Llama, Mistral, Prompt Engineering, Structured Outputs, Function Calling, Tool Calling, AI Agents, Agentic Workflows, AI Copilots
- **RAG / Search / Vector AI:** Retrieval-Augmented Generation, Embeddings, Semantic Search, Hybrid Search, Vector Search, Reranking, Document Intelligence, LlamaIndex, LangChain, LangGraph, Semantic Kernel,

Pinecone, Weaviate, FAISS, Chroma, pgvector

- **Data Engineering & AI Platforms:** Databricks, Apache Spark, PySpark, Delta Lake, MLflow, Feature Engineering, Data Pipelines, ETL/ELT, Batch Processing, Streaming Data, Data Lakehouse Architecture, Model Experimentation
- **Databases:** MongoDB, PostgreSQL, Redis, DynamoDB, Aurora, pgvector, Query Optimization, Indexing Strategies, Aggregation Pipelines, Caching Strategies, Schema Design
- **Cloud & Infrastructure:** AWS Lambda, EC2, ECS, S3, Fargate, CloudFormation, IAM, API Gateway, CloudWatch, GCP, Terraform, Docker, Kubernetes, Vagrant, Cloud-Native Architecture
- **DevOps & Tooling:** CI/CD, GitHub Actions, Jenkins, GitLab CI, Prometheus, Splunk, Datadog, Grafana, OpenTelemetry, CloudWatch, Akamai CDN, Release Automation, Environment Management
- **Architecture & Scalability:** Microservices Architecture, Domain-Driven Design, Event-Driven Architecture, System Design, Fault Tolerance, High Availability, Load Balancing, Distributed Systems, Scalability Patterns, Resilience Engineering
- **Security & Compliance:** OAuth2, JWT, SSO/SAML, HTTPS, Rate Limiting, Secure API Gateways, SOC2 Compliance, Identity & Access Management, Secrets Management, Secure SDLC
- **Testing & Quality:** TDD/BDD, Mocha, Karma, Jest, Cypress, Artillery, k6, Unit Testing, Integration Testing, E2E Testing, Load Testing, Test Automation, AI-Assisted Test Generation
- **Leadership & Process:** Agile, Scrum, Kanban, Cross-functional Collaboration, Technical Mentorship, Architecture Reviews, Product Discovery Support, Stakeholder Communication, Engineering Standards, Code Reviews
- **Business Domains:** Investment Platforms, ETF Launch Infrastructure, Financial Dashboards, Advisor Tooling, Scalable B2B SaaS, WealthTech, FinTech, Enterprise SaaS, AI-Enabled Financial Workflows