ULAR KIMSANOV

SOFTWARE ENGINEER | FULL STACK DEVELOPER

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EDUCATION

Arcadia University - Glenside, PA

Bachelor of Science in Computer Science, Expected May 2027   **GPA: 3.94 / 4.00**

- **Honors:** Dean's Distinguished List (4x), Dean's Honors List (4x)
- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Machine Learning, Deep Learning & Neural Networks, Database Systems, Computer Architecture, Object-Oriented Programming, Web Development, Complexity Analysis.

SKILLS

AI/ML & Agent Systems: Prompt Engineering, LangChain, LangGraph, CrewAI, Multi-Agent Systems, LangSmith, OpenAI API, RAG, NLP, Machine Learning, PyTorch, TensorFlow, Computer Vision.

Programming Languages: Python, JavaScript, TypeScript, Java, C/C++, HTML/CSS, SQL, Bash, Swift.

Frameworks & Libs: React, Next.js, SvelteKit, FastAPI, Node.js, TailwindCSS, Shadcn UI, Aceternity UI, Material UI, Express.js, Flutter.

Cloud & DevOps: Google Cloud Platform, AWS, Vercel, Cloudflare Workers, Docker, Kubernetes, CI/CD.

Databases: PostgreSQL, MySQL, Supabase, Cloudflare D1, SQLite, MongoDB, Neon.

Tools & Platforms: Git, WebSocket, Capacitor, N8N, ClickUp, Zendesk, Jira, Figma, Jupyter, MCP.

EXPERIENCE

Astera Holdings - Remote   **Summer 2025**
Software Engineer Intern

- Led the architecture and development of a multi-agent AI system using LangChain, LangGraph, and CrewAI for a sports analytics and prediction platform.
- Engineered complex prompt chains and agent workflows to process real-time data, steering agent behavior towards accurate outcome prediction for a target user base of over 10,000.
- Co-led the full-stack development of the cross-platform mobile application using SvelteKit, Capacitor, and TypeScript, delivering a unified and responsive user experience on iOS and Android.
- Integrated real-time sports data feeds from SportsDataIO and OptiOdds APIs via a backend built with Python, FastAPI, and WebSocket for low-latency communication.
- Spearheaded the company's operational transition to the ClickUp project management platform; conducted research, led presentations, and trained the team, increasing perceived team productivity and organization.
- Mentored a cohort of 8 junior interns in full-stack development, AI agent orchestration, and agile methodologies, creating documentation and holding workshops that accelerated their onboarding by an estimated 50%.

National Science Foundation (NSF) - Remote   **Jan 2025 - Present**
Software Engineer & Research Assistant

- Engineered a full-stack cybersecurity education platform for high school students, funded by an NSF grant and aimed at increasing interest in STEM. The tech stack includes Next.js, TypeScript, and FastAPI.
- Architected and implemented a scalable, cloud-native backend using Cloudflare Workers and the D1 database, ensuring 99.9% uptime and handling user authentication for pilot programs.
- Designed and developed over 22 interactive learning modules and JavaScript-based mini-games using TailwindCSS, Shadcn UI.
- Analyzed user data from a pilot program of 120+ students, noting a 78% lesson completion rate and achieving a user onboarding time of under 60 seconds.

Arcadia University IT Department - Glenside, PA   **May 2024 - August 2025**
Advanced IT Assistant

- Provide Tier 1 technical support for a community of over 4,000 students, faculty, and staff, resolving 45+ tickets weekly via Zendesk with a 90% same-day resolution rate.
- Authored and deployed automation scripts using Bash and PowerShell for imaging and configuring over 500 lab and faculty devices (Windows & macOS), reducing manual setup time by 35%.
- Led a project to stabilize the campus printer fleet by refining network configurations and implementing a preventive maintenance schedule, resulting in a 20% reduction in recurring outages.

PROJECTS

Horizon - Banking App (Next.js, TypeScript, Appwrite, TailwindCSS, Plaid, Dwolla)
- Built full-stack banking platform with real-time fund transfers using Dwolla API and Plaid for multi-bank integration.
- Engineered server-side payment processing with Next.js Server Actions and Appwrite, implementing secure session management and transaction tracking across linked accounts.
- Developed responsive dashboard with TailwindCSS and Chart.js visualizations; deployed on Vercel with edge runtime optimization and Sentry monitoring for 99.9% uptime.

LectureFlow - AI Lecture Notes (Python, FastAPI, LangGraph, Next.js, PostgreSQL)
- Developed multi-agent orchestration system using LangGraph with Gemini 2.5 Flash and GPT-4o-mini, processing videos through parallel agent execution for lecture summarization and AI tool extraction.
- Engineered real-time SSE streaming architecture with smart PostgreSQL caching, achieving 99% cost reduction on repeat videos and sub-1-second response times for cached results.
- Built production-ready full-stack application with Next.js 15, implementing Server Components, TanStack Table for history management, PDF export, and cross-browser compatible UI (Safari 16.4+, Chrome 120+).

CryptoLive (React, FastAPI, WebSockets, Tailwind CSS, Ant Design, Kraken API)
- Built a real-time cryptocurrency tracking platform with TradingView-style candlestick charts, live WebSocket price streaming, and advanced search functionality using React, FastAPI, and Kraken WebSocket API
- Engineered real-time price updates via Kraken WebSocket v2, achieving <170ms latency for live market data streaming
- Developed interactive financial charts with 7 timeframes (1m-1D) using lightweight-charts library, featuring zoom, pan, and OHLC candlestick visualization with responsive data caching
- Designed modern glassmorphic UI with Tailwind CSS and Ant Design, implementing skeleton loading states, error boundaries, and mobile-responsive layouts with smooth CSS animations

Neural Digit Canvas (Python, PyTorch, Next.js, AWS Lambda, Docker)
- Developed full-stack ML web application achieving 98.2% accuracy on MNIST, with interactive drawing canvas and real-time digit classification. Deployed serverless backend on AWS Lambda using Docker containerization.
- Engineered complete production pipeline: FastAPI REST API, Next.js 15 frontend, dual model architecture (Linear & CNN), and automated CI/CD deployment to AWS ECR/Lambda and Vercel.
- Implemented comprehensive ML workflow with training visualization, model checkpointing, and performance evaluation, demonstrating end-to-end ML engineering from research to production deployment.

AWARDS & COMPETITIONS

- **National Cyber League (NCL) Fall 2024 -** Top 4%
- **National Cyber League (NCL) Spring 2025** - Top 3%
- **ICPC Regional Programming Contest 2024 -** Top #10

PROFESSIONAL DEVELOPMENT

- **BEYA STEM Conference 2025:** Participant
- **Amazon University Event at BEYA 2025:** Participant
- **AWS Cloud Architect Certification 2025**

LANGUAGES

- **Fluent:** English, Russian, Kyrgyz, Kazakh
- **Proficient:** Turkish
- **Elementary:** Spanish, French