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

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

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

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

EXPERIENCE

Astera Holdings - Remote **Summer 2025**
Software Engineering 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 - Present**
Advanced IT Assistan

- 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 core banking UI & real-time transfers for 1,000+ users; onboarding tests showed a **40 %** jump in engagement.
- Designed Appwrite cloud functions for payments, hitting **<50** ms median latency across 10k simulated transactions.
- Implemented responsive dashboard using TailwindCSS and Chat.js, deployed on Vercel cutting page-load **50 %** and sustaining **99.9 %** uptime.

YouTube Lecture Notes AI Agent (Python, CrewAI, LangChain, OpenAI API, N8N)
- Created automated workflow system extracting structured notes from video content using multi-agent collaboration
- Processed 100+ educational videos with 90% accuracy in key concept identification and summarization
- Integrated N8N automation for seamless content pipeline from video input to formatted documentation output

Crypto List (Python, FastAPI, React, CoinMarketCap API)
- Developed a simple full-stack cryptocurrency tracker using FastAPI (Python) and React (JavaScript), achieving <1 second
- average data fetch and render time.
- Integrated CoinMarketCap API for real-time market changes, updating prices within 170-200 ms on average.
- Implemented responsive UI with Tailwind CSS, reducing layout reflows by approximately 30%.
- Achieved over 90% unit test coverage, ensuring reliable end-to-end functionality across the stack.

MNIST Neural Network Classifier (Python, PyTorch, NumPy)
- Engineered a neural network model achieving 91% accuracy on MNIST dataset, implementing custom data preprocessing
- pipeline for processing 70,000 images using PyTorch and NumPy.
- Optimized model performance through hyperparameter tuning and data normalization techniques, achieving 85% accuracy
- within first training epoch
- Developed complete ML pipeline with visualization tools using Python, PyTorch, NumPy, Matplotlib and Jupyter,
- following industry best practices for machine learning workflows

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