

Assylbek Saduakhassov

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EDUCATION

New York University Abu Dhabi

Abu Dhabi, UAE

B.S. of Computer Science, Minor in Applied Mathematics; GPA: 3.75

Aug. 2021 – May 2025

- **Relevant Courses:** Software Engineering, Linear Algebra, Probability and Statistics, Differential Equations, Algorithms, Data Structures, Data Science, Machine Learning, Operating Systems, Computer Networks

EXPERIENCE

Software Engineer

Apr. 2024 – Mar. 2025

Qlub

Dubai, UAE

- **Led technical integration for Pizza Express and multiple restaurant chains**, onboarding **20+ restaurants** across **4 international regions**, enabling over **50,000 transactions monthly** by developing robust Python-based microservices, RESTful APIs, MSSQL, and Redis caching.
- **Delivered integrations for 5+ global POS providers**, shortening onboarding timelines by **40%**, by standardizing API development, architecture design, and effective stakeholder collaboration.
- **Implemented LLM-based categorization system**, achieving **94%+ accuracy** in automated item classification, improving restaurant analytics and operational insights.
- **Improved system reliability and decreased troubleshooting time by 40%** by implementing distributed tracing (Jaeger) and real-time monitoring dashboards (Grafana).
- **Built and deployed QR-based menu ordering system for a key POS provider**, increasing ordering efficiency by 25% and enhancing customer experience through seamless integration.

Research Assistant

Apr. 2023 – Sep. 2023

NYUAD Laboratory for Computer-Human Intelligence

Abu Dhabi, UAE

- **Developed a Chrome extension using JavaScript and Chrome Extensions API**, capturing and analyzing over **2M+ user events** in real-time, enabling detailed insights into user productivity and distraction patterns.
- **Developed a secure backend system in Flask**, handling **real-time event collection** via RESTful APIs and JWT authentication, reducing data transmission vulnerabilities and achieving **99.9% reliability**.
- **Optimized PostgreSQL database performance**, decreasing query response times by **40%** through effective indexing and partitioning, enabling efficient real-time data analysis.
- **Deployed a scalable Flask application on AWS** using EC2, Elastic Load Balancing, Auto Scaling, RDS, and S3, supporting seamless scalability and ensuring **99.99% uptime**.
- **Analyzed anonymized user activity data with machine learning algorithms**, identifying periods of focused work versus distraction with an accuracy of **92%**, enabling actionable insights for productivity enhancement.

PROJECTS

Founding Engineer

Sep. 2023 – May 2024

Clout

- **Co-founded and led development of Clout**, a dynamic influencer media-kit platform featuring personalized URLs, integrated with Instagram, TikTok, and YouTube, automating daily updates of performance metrics.
- **Built scalable backend** using Django REST, AWS (EC2, S3, RDS PostgreSQL), and JWT, supporting seamless data collection from social media APIs, achieving **99.9% uptime** and enabling real-time analytics.
- **Acquired 50+ influencers within two months**, streamlining brand collaboration by automating media-kit creation, which reduced manual effort by **85%** compared to traditional methods (e.g., Canva, manual screenshots).
- **Led customer outreach and marketing campaigns**, using targeted Facebook ads, Instagram, and Telegram channels, increasing platform engagement by **100%** quarter-over-quarter.
- **Completed two startup accelerator programs:** startAD (Abu Dhabi), winning a 10,000 AED grant, and NURIS (Astana), receiving an investment offer of \$20,000 USD, validating the problem and scalability.

TECHNICAL SKILLS

Python, Django, PostgreSQL, MySQL, Redis, MSSQL, RESTful APIs, JWT, API Rate Limiting, AWS EC2, S3, RDS, Elastic Beanstalk, Docker, GitHub Actions, Nginx, Unit Testing, Integration Testing, pytest, TDD (Test-Driven Development), Postman, Git, GitHub, Jira, Confluence, CI/CD, LLMs, Grafana, Jaeger Tracing, Extensions API