

ZHANDOS SHANDYBAYEV

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EDUCATION

Drexel University, Philadelphia, PA

Sep 2020 – Jun 2025

B.S. in Computer Science, Concentration: Software Engineering, Minor: Data Science

GPA: 3.82/4.00

Relevant Coursework: Software Engineering, Data Structures & Algorithms, Algorithms and Analysis, Machine Learning, Data Science Programming, Artificial Intelligence, Software Evolution

WORK EXPERIENCE

Legacy Advisors

Plymouth Meeting, PA

Software Developer

Oct 2025 - Present

- Designed and implemented complex **T-SQL** data transformation pipelines in **Microsoft SQL Server** to synchronize portfolio market values across multiple financial systems.
- Built optimized **CTE-based** aggregation workflows, reducing portfolio valuation query runtime by 35%.
- Developed VBA automation to enforce data integrity across financial workbooks used by 15+ stakeholders.

UCron

Philadelphia, PA

Founding Engineer & Full-Stack Developer

Sep 2024 – Jun 2025

- Joined UCron at its inception to build a full-stack academic platform for college students to plan courses, generate schedules, and track academic history.
- Built and deployed **FastAPI** and **Next.js** microservices integrated with **MongoDB**, serving 1K+ active users and supporting 10K+ dynamic entities.
- Implemented automated **sitemap generation** and SEO optimizations, increasing organic traffic by 30%.
- Wrote automated tests and validation logic to ensure data consistency across multiple services.

KazMunayGas Engineering

Astana, Kazakhstan

Backend Developer

Apr 2024 - Sep 2024

- Developed and optimized **RESTful APIs** using **FastAPI**, handling 1000+ daily requests.
- Built **Pytest** test suite achieving 90%+ code coverage and reduced regression defects by 30%.
- Collaborated in weekly **code reviews**, cutting average API response latency by 15%.

Legacy Advisors

Plymouth Meeting, PA

Software Developer

Apr 2023 - Sep 2023

- Delivered **20+ VBA enhancements** for in-house financial tools, improving automation speed by 40%.
- Researched and integrated **3 enterprise-grade software solutions**, modernizing IT infrastructure.
- Debugged and resolved **25+ production-level issues**, ensuring uninterrupted financial operations.

Rajant Corporation

Malvern, PA

Software Developer, Artificial Intelligence Team

Mar 2022 - Sep 2022

- Migrated legacy **ROS** environment to **ROS2**, improving performance by 60%.
- Engineered a **Python-based data pipeline** transferring telemetry to **Google Cloud** for remote access.
- Integrated **InfluxDB** to optimize **data analysis** processes, resulting in a 70% increase in **data accuracy** and a 25% decrease in **data processing** time.

SKILLS

Programming Languages: Python, C++, Java, TypeScript, SQL, HTML/CSS, VBA

Tools and Frameworks: FastAPI, Next.js, Pytest, Git, Docker, Claude, NumPy, Pandas, ROS, Jupyter

Cloud & Databases: MongoDB, PostgreSQL, InfluxDB, Google Cloud

Concepts: RESTful APIs, Clean Architecture, OOP, Agile Development, CI/CD

Languages: English (fluent), Kazakh (native), Russian (native), Turkish (basic), Arabic (basic)

AWARDS

- **Dean's List (2020-2025)** - Drexel University, for academic excellence.
- **First Place (2023)** - NACE Varsity Plus, National CS:GO Championship with Drexel CS Team.
- **Bronze Medal (2020)** - National Mathematics Olympiad, ranked top 10 of 48 participants.