

Bek Abdurakhmonov

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United States

Summary

Backend-focused engineer with hands-on experience building production-grade tools in Python, Java, and SQL across enterprise systems. Shipped performant, scalable applications and data-driven dashboards used by executives and field teams.

Education

B.A. in Computer Science, minor in Math at Coppin State University *August 2022 - May 2026*

GPA 3.9, Honors Program, 6 times Dean's list, Scholar-Athlete of the Year, NCAA D1 Men's tennis

Professional Experience

Software Engineer Intern at Sports Media Inc. (full stack)

August 2025 - December 2025

- Designed and deployed backend services with Python Flask, integrating Redis, Docker, and Nginx to enable caching and high-performance API delivery.
- Built and optimized REST APIs to process external sports data and persist it in PostgreSQL/Supabase, powering real-time data display.
- Developed and deployed responsive user interfaces with React, enhancing usability across devices.

Software Developer/Data Analyst, Philadelphia Electric Company (PECO) June 2025-August 2025

Philadelphia, PA

- Built and deployed a fully interactive, live dashboard using Python, Streamlit, and Oracle SQL to analyze dispatcher productivity across three large-scale Oracle database systems.
- Designed and deployed a Power BI prototype to track team vs. individual productivity, resulting in a 60% improvement in performance transparency and enabled data-driven decisions.
- Engineered, deployed, and maintained production-ready tooling integrated with operational workflows.

Software Engineer at Baltimore Gas and Electric (BGE),

June 2024-August 2024

Baltimore, MD

- Developed a Python GUI software that automated cross-system data validation between Oracle Databases and Primavera Unifier, significantly reducing manual data reconciliation efforts and improving data accuracy across 6,000+ active user accounts.

- Created comprehensive documentation and a user manual to ensure continued usability post-internship.
- Administered Primavera Unifier software for 12000+ users, managing user roles, permissions, and system configurations to support enterprise project management workflows.

Projects / Experience

easyJobs.com - Java, Spring Boot, JavaScript, HTML, CSS application

- Developed a Spring Boot web application that streamlines posting and applying for jobs.
- Implemented complete user authentication and authorization using Spring Boot Security, following best practices for secure access control.
- Designed and structured the application using the MVC architectural pattern to ensure clean separation of concerns and maintainability.
- Leveraged advanced Spring Boot 3 features, Maven for build automation, and Hibernate/JPA for efficient ORM and database management.
- Tech: Java, Spring Boot 3, Maven, Hibernate/JPA, MySQL, JS, HTML, CSS, Thymeleaf
- Source code: [GitHub](#)

AI chatbot assistants - Python, Flask, JavaScript, HTML, CSS web application

- Built a web app integrating OpenAI's GPT-3.5 Turbo API to create customized AI chatbots for three domains: Clothing Store, IT/Tech Support, and Travel Agency. The Clothing Store chatbot integrates with a database to retrieve order and delivery status based on tracking numbers, enhancing customer service automation.
- Implemented natural language parsing using regex to extract and store key user data, enabling the bots to handle recurring issues more effectively and personalize responses.
- Technologies: Python, Flask, SQLite, OpenAI GPT-3.5 turbo API, JavaScript, HTML, CSS.
- Live demo: <https://ai-chatbot-assistant-jz2s.onrender.com/> | Source code: [GitHub](#)

Additional skills: MySQL, Linux, Hibernate, Maven, Oracle SQLDeveloper, Pandas, PowerBI, Math and Computer Science Tutoring