

Nauryzbek Berdi

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EDUCATION

Berea College – Berea, KY
BA, Computer & Information Science, Minor in Business Administration

Aug 2023 – May 2027
Cumulative GPA: 3.43/4.0

SKILLS

- Programming: Python, JavaScript, SQL, C++, HTML5, CSS3
- Frameworks: React.js, Node.js, Express.js, Flask, Bootstrap, Tailwind CSS
- Databases & Tools: PostgreSQL, Git, RESTful APIs, SQLite, Prisma ORM, Jinja
- Languages: English (fluent), Russian (native), Kazakh (native), Turkish (intermediate)

EXPERIENCE

Full-Stack Developer
Purdue University – West Lafayette, IN

Jun 2025 – Jul 2025

- Architected comprehensive project management platform serving 5000+ students and 100+ peer mentors, eliminating 100% of scheduling conflicts through automated workflow system
- Built role-based authentication system with 4-tier hierarchy using React, Node.js, PostgreSQL, and Prisma ORM, enabling non-technical staff to manage operations independently
- Implemented real-time consultation booking system with automated availability tracking, reducing administrative workload by 60% and providing analytics dashboard for project metrics

Teaching Assistant, Computer Science Department
Berea College – Berea, KY

Aug 2024 – May 2025

- Data Structures & Algorithms (Spring 2025): Mentored 30+ students in algorithm design and complexity analysis, improving average assignment scores by 15% through targeted tutoring sessions
- Software Design & Implementation (Fall 2024): Evaluated and provided detailed feedback on 36 students' software projects, emphasizing design patterns and clean code principles

PROJECTS

Auto Grader Program (Python, Google Sheets API, Moodle API, Web Scraping)

- Developed an automated grading system that streamlines quiz scoring and grade posting on Moodle; increased grading efficiency by 30% while maintaining data accuracy through automated validation processes
- Utilized Python with Google Sheets and Moodle APIs for seamless data integration; implemented web scraping techniques with custom error handling for reliable grade processing

Flashcard App (Flask, SQLite, JavaScript, Bootstrap, Jinja, HTML, CSS)

- Developed a full-stack web application that enables users to create, manage, and study digital flashcards; incorporated secure user authentication and authorization systems to protect data and content
- Used Python and Flask framework with Jinja templating and SQLite database; designed responsive interfaces with HTML, CSS, Bootstrap, and JavaScript for enhanced user experience

Power Gym Website (JavaScript, Bootstrap, HTML, CSS)

- Designed and developed a responsive fitness website that delivers personalized workout plans based on user inputs; implemented an interactive questionnaire system using JavaScript that analyzes responses to generate tailored exercise routines and nutrition recommendations
- Built a mobile-responsive interface with CSS media queries and Bootstrap, featuring a comprehensive exercise library with instructional videos organized by body part, ensuring optimal user experience across all device sizes

RSO Chatbot (PyTorch, Flask, NLTK, JavaScript, HTML, CSS)

- Developed neural network chatbot deployed at Berea College to answer student questions about campus organizations; processes 65 intent categories with 70% confidence threshold, achieving cost-effective solution with sustainable hosting
- Implemented PyTorch neural network with custom preprocessing pipeline and Flask REST API; deployed production application on Render serving campus community

LEADERSHIP & ENGAGEMENT

- Member, Google Developer Club, Berea College
- Member, National Society of Black Engineers, Berea College

Sep 2023 – Present
Jan 2024 – Present