Dmitry Baryshnikov

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EDUCATION

Baruch College, CUNY | New York City, New York   **Expected May 2027**
Bachelors in Mathematics | Dean's List (all semesters), 3.9 GPA
Relevant Coursework: Data Structures & Algorithms, Combinatorics, Discrete Mathematics, Linear Algebra, Calculus III.

PROJECTS

Sports-betting Analysis Tool - **React, MongoDB, Express.js**
Full-stack sports betting analytics application providing tools to identify profitable betting opportunities
- Developed infrastructure for collecting live odds from 10+ sportsbooks with sub-1-second latency
- Built analytics tools detecting low-hold betting markets (<3% profit margins) using expected value calculations
- Designed scalable backend architecture handling thousands of concurrent odds updates with automated optimal stake calculations and deployed on Vercel with CI/CD pipeline

Frontier All-You-Can-Fly Flight Search Tool - **React, Python, Flask | [Link](#)**
Full-stack flight search application providing free access to Frontier Airlines GoWild pass availability and pricing
- Developed web scraping infrastructure collecting real-time flight data from Frontier Airlines API with concurrent processing to scrape all pricing and destinations. The website processes 1k+ requests per day
- Built responsive React frontend with TypeScript featuring interactive calendar components, geolocation-based airport suggestions, and real-time seat availability tracking
- Designed scalable backend architecture handling multi-fare comparisons with automated booking link generation and deployed on Vercel with serverless functions

EXPERIENCE

NYC Department of Environmental Protection – *Queens, New York*
Application Development Intern   **June 2025 – August 2025**
- Developed and maintained features for PARIS (Permit and Request Information System), a critical web application used citywide for permit and inspection requests across New York City
- Built full-stack solutions using .NET backend and Angular frontend technologies, collaborating closely with senior developers in daily standups, sprint planning, and code reviews
- Implemented complex data flow solutions within a multi-tiered system architecture, resolving challenging integration issues between Dynamics 365 database and various municipal departments while utilizing Azure DevOps for version control and project management

NYC Department of Environmental Protection – *Queens, New York*
Application Development Intern   **June 2024 – August 2024**
- Built web applications using Angular and .NET (C#) to automate departmental tasks and improve workflow efficiency
- Developed a user search system connected to Microsoft Active Directory and a mold inspection tracking system for NYC HPD inspectors

Upwork – *Remote*
Freelance Software Engineer   **Jan 2020 – Present**
- Delivered 50+ custom automation and dashboard solutions for content creators and small businesses using React.js, Node.js, Python, and MongoDB, generating $20K+ in revenue with a 4.9/5 client satisfaction rating
- Developed full-stack web applications and workflow automation systems that reduced clients' manual task completion time by 60-80%, serving 1000+ concurrent users
- Collaborated directly with entrepreneurs and digital creators to gather requirements and deliver scalable software solutions from concept to deployment

LEADERSHIP EXPERIENCE

Baruch College – *New York City, New York*
Tutor   **Jan 2024 – Present**
- Provided targeted tutoring in Precalculus, Calculus I-III, and Physics through focused 1-2 person sessions
- Achieved strong student outcomes with multiple tutees improving grades significantly in computer science prerequisite courses, particularly Calculus II

TECHNICAL SKILLS

Languages: Python, Java, C#, SQL, JavaScript
Frameworks/Libraries: React, Node.js, Express.js, Angular.
Tools: Docker, Git, AWS, Azure DevOps, Vercel, Linux