

ALEXANDER JANIAK

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EDUCATION

Duke University

Durham, NC

Bachelor of Science; Majoring in Computer Science and Philosophy

Class of 2025

- GPA: 3.96/4.00
- Notable Classes: Design & Analysis of Algorithms, Data Structures & Algorithms, Intro to Computer Systems, Matrices & Vector Spaces, Probability, Computer Network Architecture, Discrete Math for Computer Science, Analysis & Design of Algorithms, Probability.

Governor Livingston High School

Berkeley Heights, NJ

Graduate

Class of 2020

- GPA: 4.86/4.50; ACT: 36/36
- Awards: Kelly Lausten Family Foundation Stem Scholar, MathWorks Math Modeling Challenge 2019 Honorable Mention, Varsity Track and Field Hurdler

EXPERIENCE & LEADERSHIP

Spice Finance

New York, NY

Head of Web2 Infrastructure

May 2022 – August 2022

- Designed and built a DeFi product focused on liquidity scaling for digital assets that led to \$1.7mm of funding at a \$20mm valuation.
- Built a full-scale API with FastAPI for an industry-leading ML digital asset appraisal model.
- Designed and constructed an automated capital allocation strategy for asset-backed lending.
- Derived a variety of exotic options pricing models for asset-backed loans.

ARCC: Pacific Northwest Gap Semester

Pacific Northwest, U.S.

Volunteer Team Member

February 2021 – May 2021

- Shadowed wolf specialists in their effort to continue the Yellowstone Wolf Recovery Project.
- Cleared forest understory in the conservation effort against invasive Kāhili ginger in Volcanoes National Park under the guidance of John Stallman.
- Volunteered at a local Washington permaculture farm and commune while learning about the community and ultra-sustainable lifestyle.

Berkeley Heights Board of Education

Berkeley Heights, NJ

Student Liaison

September 2018 – June 2020

- Attended bi-weekly Berkeley Heights Board of Education meetings and delivered a formal address regarding the state of clubs and athletics in the school district.
- Helped with critical decisions around teacher-union negotiations and school security.
- Structured first round interview criteria for the hiring of the BH District Superintendent.

NJIT Provost Summer Research Program

Newark, NJ

Intern under Professor Shahriar Afkhami

June 2019 – August 2019

- Researched, simulated, and modeled the effects of several physical parameters on the dynamics of magnetic drug targeting.
- Found the range of injection locations and blood vessel radii for realistically implementing magnetic drug targeting against invasive tumors.
- Achieved 80% capture probability for the magnetic particles using Gaussian process, polynomial, and spline regression machine learning models.

SKILLS, INTERESTS & CERTIFICATIONS

- *Skills:* Python, Java, C, HTML, CSS, JS, Git, FastAPI, Scikit-Learn, Polish
- *Certifications:* Open Water Diver, Wilderness First Responder, CPR & AED
- *Interests:* Tea, Hiking, Crypto/DeFi, Weightlifting, Climbing, AI, Gaming