

TOLUWANIMI ARIYO

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EDUCATION

Princeton University

Princeton, NJ

B.S. in Computer Science; Minor in Statistics & Machine Learning

Expected May 2026

- **Activities & Societies:** Data Science Club, AI@Princeton, National Society of Black Engineers, African Students Association
- **Relevant Coursework:** Algorithms and Data Structures, Operating Systems, Machine Learning Algorithms, Computational Models of Cognition, Theory of Autonomous Vehicles, Discrete Mathematics, Linear Algebra
- **Awards & Honors:** Induction into Princeton Engineering Council (~8 students selected) - 2022/2023

EXPERIENCE

Amazon - Supply Chain Optimization Technology Organization

Bellevue, WA

Software Development Engineer Intern

May 2023 - Aug 2023

- Extracted weblab info from PPDC (Promise Policy Dynamic Configuration) containing crucial Promise configurations for constraints, contribution profit, cost band, ship-option eligibility, overrides etc into AWS APP Config (Java).
- Constructed cutting-edge systems that execute effectively to deliver products to **250,000,000+** customers with approximately **9%** lower latency rate (Java).
- Configured large scale distributed systems using AWS technologies and augmented complex real time systems leveraging data from **1,000,000,000+** of orders to pioneer new scalable solutions (Java).

DestressifyAI

Princeton, NJ

Founder & Chief Executive Officer

Feb 2023 - Aug 2023

- Founded DestressifyAI, an pre-seed stage startup that innovates products utilizing artificial intelligence to actively take steps in reducing the prevalence of high blood pressure, heart disease, and strokes within our society.
- Developed an artificial intelligence model, alongside a founding team of **5** fellow Princeton students. Received **~\$75,000** investment funding and mentorship from **~\$175AUM** VC. Acquired for an undisclosed amount by Series A Startup.

Artificial Intelligence Institute of South Carolina

Columbia, SC

Deep Learning Research Intern

Aug 2021 - Dec 2021

- Implemented Deep Reinforcement Learning model (Planning Domain Definition Language) for several applications (Python).
- Applied Planning Domain Definition Language to assist in maximizing the probability of goal achievement.
- Optimized probability to **99%** of all test configurations, finding a shortest path to the goal state **60.3%** of the time and generalizing the model to other combinatorial puzzles (Python).

National Institutes of Health - National Institute of Diabetes and Digestive and Kidney Diseases

Bethesda, MD

Software Engineer Intern

June 2021 - Aug 2021

- Constructed a computational method using data science libraries to mathematically model ultra-low coverage single-cell DNA sequencing data of tumor cells (Python).
- Implemented machine learning approach to accurately detect tumor cells in ultra-low coverage single-cell DNA sequencing data, optimizing algorithm for approximately **98%** detection across Patient S0 and Patient S1. (Python)

PROJECTS

CryptoNJ | Python

Dec 2022 - Feb 2023

- Developed an innovative cryptocurrency tool for software sales pertaining to 3D-scanning and financial technology (Python).
- Utilized information systems to collect and input sales data and selling activity information (Python).

N-Body Simulation | Java

Sept 2022 - Oct 2022

- Designed & implemented a physics dynamical system of particles under the influence of gravitational forces.
- Numerically approximating the evolution of the system of bodies in which each body continuously interacts.

Gamers4Life | JavaScript, HTML, CSS

July 2021 - Aug 2021

- Configured a user-interactive gaming website during Google Computer Science Summer Institute.
- Allows users to play **6** interactive games such as Reverse Hangman, Jeopardy, GifHaven, and Fast Food Restaurant Quiz.

ADDITIONAL INFORMATION

Languages: Java, Python, JavaScript, HTML, CSS, Matlab, C/C++

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Interests: Full Stack Development, Applications Programming, Statistical Analysis, Artificial Intelligence, Research, Soccer, Travel