

# TOLUWANIMI ARIYO

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## EDUCATION

### Princeton University

Princeton, NJ

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

Expected May 2026

- **Relevant Coursework:** Algorithms and Data Structures, Operating Systems, Machine Learning Algorithms, Computer Architecture, Theory of Autonomous Vehicles, Discrete Mathematics, Linear Algebra (Undergraduate TA (Received **99.9%**))
- **Awards & Honors:** Induction into Princeton Engineering Council (~8 students selected) - 2022/2023

## EXPERIENCE

### IBM - AI & Quantum Computing Research Team

New York, NY

Incoming Quantum Research Intern

TBD

- Fall 2024

### Microsoft - AI Business Applications Platform

Redmond, WA

Software Engineer Intern

May 2024 - Present

- Business Applications Platform - Copilot AI
- Summer 2024

### 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, Kotlin**).
- 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 (**Kotlin, 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 from ~\$175AUM VC. Acquired for an undisclosed amount by Series A Startup.

### Artificial Intelligence Institute of South Carolina - Deep Learning Modeling

Columbia, SC

Research Intern

Aug 2021 - Dec 2021

- Implemented Deep Reinforcement Learning model (Planning Domain Definition Language) for several applications (**Python**).
- 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

### Fraud Detection | Java

Nov 2023

- Designed a machine learning model to detect fraudulent credit card transactions with an optimized accuracy of **89%**.
- Performed dimensionality reduction utilizing a clustering algorithm and partitioned points into k clusters. Implemented decision stump ML for the weak learner machine learning model and the boosting algorithm, following with testing.

### Gamers4Life | JavaScript, HTML, CSS

Aug 2021

- Configured a user-interactive gaming website that allows users to play 6 interactive games such as Jeopardy, GifHaven, etc.
- Implemented several APIs for GiF utilization, Jeopardy questions and query selectors for further operations.

## ADDITIONAL INFORMATION

**Languages:** Java, Python, JavaScript, HTML, CSS, Matlab, C#, 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