

Oreofe Solarin

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EDUCATION

Case Western Reserve University

Cleveland, OH

B.S. in Applied Mathematics and B.S. in Computer Science; GPA: 3.5

Aug. 2023 – May 2026

- CS Relevant Coursework: Computer Security, Compiler Design, Machine Learning, Algorithms
- Math Relevant Coursework: Intro. Abstract Algebra, Linear Algebra, Graph Theory(Grad Level), Real Analysis

University of Manchester

Manchester, England, United Kingdom

Mathematics and Computer Science (Study Abroad)

Jan. 2025 – June 2025

- Machine Learning, Knowledge Based AI, Mathematical Systems and Computation, IoT

The College of Wooster

Wooster, OH

Mathematics and Computer Science (Transferred); GPA: 3.8

Aug. 2022 – May 2023

- Relevant Coursework: Data Structures and Algorithms, Combinatorics, Machine Intelligence

PUBLICATIONS

An Empirical Study on Reproducible Packaging in Open-Source Ecosystems

ICSE 2025

- Giacomo Benedetti, Oreofe Solarin, Courtney Miller, Greg Tystahl, William Enck, Christian Kästner, Alexandros Kapravelos, Alessio Merlo, Luca Verderame

It's Not Just Timestamps: A Study on Docker Reproducibility. Oreofe Solarin.

Under Review

Quantitative analysis on dataset similarity in X-ray diffraction patterns: An information theory approach

- Ozan Dernek, Oreofe Solarin, Roger French. Manuscript under preparation for submission

AWARDS & FUNDING

2025 CWRU URO STEM Summer Research Funding - \$4,000

Carolyn J. & John A. Massie CIT'66 Prize Research Travel Funding

ICSE '25 Student Mentoring Workshop

EXPERIENCE

Undergraduate Research Fellow

Aug. 2024 – Present

SDLE Research Center, Case Western Reserve University

Cleveland, OH

- Conducting uncertainty analysis of XRD images using Information Entropy.

Undergraduate Research Fellow (REU)

May 2023 – May 2025

Carnegie Mellon University

Pittsburgh, PA

- **'23 Advisor and PI: Prof. Christian Kästner, CMU**
- Conducted research on Reproducible Builds for Software Supply Chain Security (Accepted for ICSE 2025).
- **'24 Advisor and PI: Prof. Limin Jia, CMU**
- Investigated information flow security and developed proofs for non-interference in type systems.

Software Engineer Intern

June 2025 – Aug. 2025

Amazon, ShopBop SHOX Team

New York City, NY

- Built a production Price Slider UI component used across product-listing pages to improve the shopping experience. Worked on improving and optimizing internal services to reduce year overhead costs.

CSDS 132 Teaching Assistant: Intro to Java Programming

Aug. 2024 – Dec. 2024

Case Western Reserve University

Cleveland, OH

- Assisted students with understanding object-oriented programming and Java concepts.

Undergraduate Research Fellow

May 2023 – July 2023

College of Wooster

Wooster, OH

- Worked as a student researcher on Graph Theory, focusing on the Cops and Robbers problem.

ACTIVITIES

Risk Manager for CWRU Cycling Club: Lead Sprinter in CWRU Cycling Club, and conducting risk assessments for competitions and practices.

Open-Source Contributor: Maintaining and contributing open-source packages on GitHub, Pub.Dev, and NPMJS.