

OREOFE SOLARIN

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SUMMARY

Applied Mathematics and Computer Science junior with a focus on software development, machine learning, and scalable distributed systems. Experience in designing, testing, and deploying mobile applications. Strong collaborative and problem-solving skills, with a passion for improving security in software development. Seeking a software development internship to apply my skills and continue learning.

EDUCATION

B.S., Applied Mathematics and Computer Science (AI minor) Graduating May 2026
Case Western Reserve University, Cleveland, OH 3.5 GPA
Case School of Engineering
Relevant coursework: Computer Security, Compiler Design, Graph Theory, Machine Learning, Logic Design ,

Mathematics and Computer Science Graduating Transferred
The College of Wooster, Wooster, OH 3.8 GPA
School of Arts and Sciences
Relevant coursework: Data Structures and Algorithms, Machine Intelligence, Linear Algebra

TECHNICAL SKILLS

Programming Languages: Python, C++, Dart, Java, JavaScript, TypeScript, MATLAB

Web Development: Django, Flutter, REST APIs, Xcode, Android Studio

Machine Learning: Pandas, TensorFlow, Scikit-learn, NumPy

Tools: Git, Jupyter Notebook, R, Docker

Certifications: Cybersecurity (ISC)² Certification

PAPERS

An Empirical Study on Reproducible Packaging in Open-Source Ecosystems ICSE 2025
Benedetti, Giacomo, Solarin Oreofe, Courtney Miller, Greg Tystahl, William Enck, Christian Kästner, Alexandros Kapravelos, Alessio Merlo, and Luca Verderame. An Empirical Study on Reproducible Packaging in Open-Source Ecosystems, 2024.

Proving Security Properties via Preservation TBD 2025
Oreofe Solarin, Twain Byrnes, and Limin Jia

EXPERIENCE

Carnegie Mellon University, Pittsburgh, PA: Undergraduate Research Fellow (REUSE REU) May 2024 – Present

- Conducting research in Information Flow Security, constructing proofs to ensure "Non-interference" in type systems.
- Collaborating with researchers to design secure programming languages.

Gameplay, Remote: Software Engineer Nov 2023 – Present

- Developed mobile applications using Flutter and Dart, improving UX by 30%.
- Integrated backend APIs using Django to handle data for mobile apps.

Carnegie Mellon University, Pittsburgh, PA: Undergraduate Research Fellow (REUSE REU) May 2023 – April 2024

- Worked on Reproducible Builds in Software Supply Chain Security.
- Comparative Study of Reproducible builds across Open-Source Ecosystems. Research paper on Reproducible Builds for Software Supply Chain Security (ICSE 2025)

The College of Wooster, Wooster, OH (Remote): Undergraduate Research Fellow May 2023 – July 2023

- Worked as a student researcher on Graph Theory, with a focus on the Cops and Robbers problem, contributing to the understanding and analysis of algorithms and complexity

The College of Wooster, Wooster, OH: Research Assistant, Advisor: Prof. Mathew Krain Sept 2022 – Dec 2022

- Designed and implemented a Python WebCrawler script to download relevant political science web texts
- Effectively used libraries such as BeautifulSoup and the NLTK natural language processing for this project

ACTIVITIES

Open Source Maintainer March 2020 – Present
Maintaining packages on GitHub, Pub.Dev, NPMJS

Risk Manager for CWRU Cycling Club & Memeber of NSBE December 2023 – Present
Current Risk Manager for the CWRU Cycling Club, where I carry out risk assessment for club competition and practices.