David Ogunbanjo

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Education

Loyola University Maryland — Baltimore, MD
Bachelor of Science in Computer Science — *Anticipated May 2027*
- Honors: Loyola Presidential Scholarship, Delegate Scholarship
- Scholar Programs: Hyman Science Scholar Program, Hauber Research Fellowship
- Relevant Coursework: Object-Oriented Data Structure Design and Analysis, Operating Systems

Research Experience

Hauber Research Fellow — Summer 2025
Loyola University Maryland — *Baltimore, MD*
- Developed and optimized CNN models for pothole detection in roadway images.
- Collected, labeled, and preprocessed datasets using Python, TensorFlow, and Roboflow.
- Evaluated model performance using precision, recall, and F1 score.
- Collaborated with faculty mentors to prepare a research paper and presentation.

Work Experience

Information Technology Technical Services Assistant — Summer 2024 – Present
Loyola University Maryland — *Baltimore, MD*
- Installed and configured operating systems and enterprise software on 90% of campus devices.
- Diagnosed and repaired hardware/software issues, improving uptime and user satisfaction.

Technical Coordinator — Summers 2023 – Spring 2024
Westminster, MD
- Created a Power App to automate temperature tracking, improving efficiency by 40%.
- Streamlined data systems through SharePoint and Excel automation.

Information Technology Intern — Summers 2023
Westminster, MD
- Built a data-tracking app using Power Apps and Power Automate.
- Designed and launched a SharePoint site for centralized company documentation.

Leadership Experience

Robotics Club — Fall 2024 – Present
Vice President — *Loyola University Maryland*
- Oversaw project planning and collaboration with STEM organizations.

Association for Computing Machinery & Cybersecurity Club — Fall 2024 – Present
Co-President — *Loyola University Maryland*
- Organized technical workshops, hackathons, and networking events.

Projects

Personal Portfolio Website — 2024
Technologies: React, Material-UI, Netlify
- Developed a responsive portfolio website to showcase projects and skills.
- Implemented interactive UI components using React and Material-UI.

Pothole Detection System — 2025
Technologies: Python, TensorFlow, Roboflow
- Created a CNN model to detect potholes in roadway images with 92% accuracy.
- Individually preprocessed and manually labeled a dataset of 5,000 images for training and validation.

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, laTex
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
Libraries: pandas, NumPy, Matplotlib
Certifications: CompTIA A+, CPR