

Emmanuel Iko-Ojo Simon

0416687098 | emmanuel.simon@anu.edu.au

Summary

I am currently pursuing a PhD in Computer Science at the Australian National University (ANU). My main research interest is lies in empirical software engineering and technical debt. I am seeking a position in an organisation where I can apply my academic skills, continue learning, and make a positive contribution to the growth of the organisation through my skills.

Employment

Sessional Academic, Australian National University, July 2024 – present

- Teaching and delivering tutorials on Document Analysis
- Conducting lab sessions
- Marking and grading of assessments and examinations

Tutor, University of Canberra College, February 2024 – present

- Teaching and delivering tutorials on Database Design, and Introduction to Python
- Conducting lab sessions
- Marking and grading of assessments and examinations

Assistant Lecturer, University of Jos, October 2018 – present

- Teaching and delivering tutorials on Software Engineering courses, Introduction to Networking. Introduction to Java, and Operating Systems
- Conducting lab sessions
- Marking and grading of assessments and examinations
- Supervision of undergraduate student honours project.

IT Administrator, SSAVA PRIMS Consults, January 2017- September, 2018

- Creation of a Website for the company
- Update of website contents
- Coordinating ICT related Issues
- Managing email correspondences

IT Support and Maintenance, University of Jos, March 2014 – December 2014

- Hardware Troubleshooting
- Repairs and Maintenance of power supplies
- Upgrading of RAM
- Installation of antivirus and update

Courses Previously Taught

- Document Analysis
- Introduction to Python
- Database Design and Management
- Operating Systems
- Software Engineering
- Introduction to Networking
- Introduction to Java Programming
- Operating Systems

Education

Ph.D. Computer Science (in view). Australian National University (ANU).

Topic: Algorithm Debt in Machine and Deep Learning Systems

Primary Supervisor: Dr. Chirath Hettiarachchi (ANU School of Computing)

M.Sc. Computer Science (2022), University of Jos.

Topic: Ensemble Method for COVID-19 Detection

Supervisor: Prof. Abraham Deme

B.Sc. Hons. Computer Science (2016), University of Jos.

- Final project: Senate Format Result Processing System: A Computational Approach to Result Processing.
- Supervised by: Evarista Anwulee Onokpasa

Selected Academic Publications

- **Simon, Emmanuel Iko-Ojo.** Characterising Algorithm Debt in Machine and Deep Learning Systems. Accepted Paper at *ACM Student Research Competition in the 47th International Conference on Software Engineering (ICSE, 2025)* 27 April - 3 May 2025 in Ottawa, Canada.
- **Simon, Emmanuel Iko-Ojo,** Chirath Hettiarachchi, Alex Potanin, Hanna Suominen, and Fatemeh Fard. Automated Detection of Algorithm Debt in Deep Learning Frameworks: An Empirical Study. *A Registered Report Track at 40th IEEE International Conference on Software Maintenance and Evolution (ICSME 2024)*, Flagstaff, USA, October 6-11, 2024. *arXiv preprint arXiv:2408.10529* (2024).
- Venkatkrishna, V., Nagabushanam, D. S., **Simon, Emmanuel Iko-Ojo,** and Vidoni, M. (2024, April). Multi-step Automated Generation of Parameter Docstrings in Python: An Exploratory Study. In *Proceedings of the 2024 IEEE/ACM 46th International Conference on Software Engineering: Companion Proceedings* (pp. 356-357).
- **Simon, Emmanuel Iko-Ojo,** Melina Vidoni, and Fatemeh H. Fard. Algorithm Debt: Challenges and Future Paths. In *2023 IEEE/ACM 2nd International Conference on AI Engineering—Software Engineering for AI (CAIN)*, pp. 90-91. IEEE, 2023.
- Ishaya, Tanko, Uchele, O., James, L., Joshua, A. T., **Simon Emmanuel Iko-Ojo,** & Ghaji, M. A. (2022). Biometric sensing information technology as a tool Tackling the Animal Production challenges. In *Nigeria Society for Animal Production*, in Jos. 896-900. [Hardcopy only, Online In-Press]
- Tanko, Ishaya., **Simon Emmanuel Iko-Ojo,** and Olusegun, Oshibanjo (2022). Computer and livestock management: a solution to easy practice. In *Nigeria Society for Animal production*, 891 -895.[Hardcopy only, Online In-Press]
- MT Alams, G Thomas, **Simon Emmanuel Iko-Ojo,** LK Tohomdet, S Mallo JR, and DB Bisandu (2022). Open-Source Voice Over Internet Protocol (VOIP) For Small And Medium Enterprises (SMEs) In And Post COVID-19 Era. *Researchjournali's Journal of*

- **Simon Emmanuel Iko-Ojo**, DC Abraham, and N Gurumdimma (2021). An Effective Deep Learning Model for COVID-19 Detection from Chest X-Ray. *International Journal of Research and Innovation in Applied Science (IJRIAS)*. 6(11) 55-59. ISSN: 2454-6194. Available at: <https://www.rsisinternational.org/virtual-library/papers/an-effective-deep-learning-model-for-covid-19-detection-from-chest-x-ray/>
- D Sule, GA Thomas, AJ Jegede, and **Simon Emmanuel Iko-Ojo** (2021). Towards The Design and Implementation Of A Legislature-Electoral Base Information Circulation System. *Researchjournali's Journal of Computer Science* 6 (01), 1-16. ISSN 2349-5391 . Available at: <https://researchjournali.com/view.php?id=5742>
- EB Obianuju, DB Bisandu, and **Simon Emmanuel Iko-Ojo** (2020). Automated Real Time Light Emitting Diode (LED) Display Board for the University of Jos, Nigeria. *International Journal of Latest Research in Science and Technology* 9 (1), 1-6.
- O Eva, DB Bala, and **Simon Emmanuel Iko-Ojo** (2019). Sudoku Solving Ability and Intelligence. *International Journal of Computer Applications* 178 (43), 1-3. DOI: 10.5120/ijca2019919194
- DB Bisandu, DD Datiri, E Onokpasa, AT Mammum, GA Thomas, and **Simon Emmanuel Ikoojo** (2019). A Framework for the Adoption of Knowledge Management System (KMS) in University of Jos, Nigeria. *International Journal of Innovation and Learning* 4 (6), 137-154. Available at: <https://www.rsisinternational.org/journals/ijrias/DigitalLibrary/Vol.4&Issue6/137-154.pdf>

Professional Service

- 2025 International Conference on Technical Debt: Junior PC Member in Junior Program Committee within the Junior Program Committee-track
- 2025: Reviewer for Software X
- 2025: Reviewer for JSS journal
- 2024 ASE: Committee Member in Program Committee within the Artifact Evaluation Track-track
- 2024 Mining Software Repositories: Committee Member in Technical Papers - Junior Program Committee within the Junior PC-track
- 2021 Panel Member: Code Fest 2021 (CS Student Competition, university of Jos)

Awards and Achievements

- 2024 Recipient of the Best Research Ingredients at the ANU Research Fest
- 2024 ACM grant to attend ICSE 2024 conference in Portugal, Lisbon
- 2024 AI Safety Forum grant to attend conference in Sydney
- 2023 ANU school of Computing Fully PhD funded Scholarship
- 2008 Best Science Student (United Faith Tabernacle College Jarawan Kogi, Jos, Nigeria).

Volunteering Activities

- Volunteer at ICSE Conference, 2024 (Portugal)
- Volunteer Alta Conference, 2024 (Australia)