Daniel Ogenrwot

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Summary

Daniel is a Computer Science researcher and innovator with a great passion for building technical solutions to solve community challenges. He has worked with several organization to support the set-up of cloud infrastructures and CI/CD pipelines. He designs tools for automation of processes between software and data science team to ensure fast and reliable product delivery. His current research focuses on Software Design (Anti-patterns & Role stereotypes), Empirical Software Research, Mining Software Repositories (MSR), Software Re-engineering and Machine Learning in Software Engineering. Daniel holds a MSc. Computer Science from Makerere University and BSc. Computer Science from Gulu University. He is self-driven, loves learning and sharing knowledge within a team of diverse setting.

Employment Experience

JAN 2022 – Present	Assistant Lecturer Department of Computer Science. Gulu University https://gu.ac.ug
AUG 2019 – Present	Software Engineer & Research Fellow AirQo Project, College of Computing and Information Sciences. Makerere University https://airqo.net
JAN 2017 – DEC 2021	Teaching Assistant (Graduate Trainee) Department of Computer Science. Gulu University https://gu.ac.ug
DEC 2016 – DEC 2017	Head of Technical Department Zoom Wireless ISP / SINFA Uganda Ltd. <i>Note: This project officially ended in 2020</i>
MAY 2014 – NOV 2016	Network Operation Centre (NOC) Engineer Zoom Wireless ISP / SINFA Uganda Ltd. <i>Note: Project officially ended in 2020</i>
DEC 2012 – MAR 2014	Micro Worker Sama Uganda https://www.sama.com/

Education 2023 - Present PhD in Computer Science, University of Nevada-Las Vegas 2018 - 2020 M.Sc. Computer Science, Makerere University Thesis title: Using Machine Learning to Understand the Association of Design Smells with Role Stereotypes in Software Systems. CGPA: 4.47 of 5.00 2010 - 2013 B.Sc. Computer Science, Gulu University Project Report Title: Contextually and Geographically Relevant Ads Placement System. CGPA: 4.48 of 5.00 (First Class Honours)

Research Publications

Journal Articles

- 1 Okure, D., **Ogenrwot**, **D.**, Bbaale, M., & Bainomugisha, E. (2023). Data management in resource-limited settings: Unpacking the role of robust digital solutions for air quality data management in african cities.
- Sserunjogi, R., Ssematimba, J., Okure, D., **Ogenrwot**, **D.**, Adong, P., Muyama, L., ... Bainomugisha, E. (2022). Seeing the air in detail: Hyperlocal air quality dataset collected from spatially distributed airqo network. *Data in Brief*, *44*, 108512.
- **3 Ogenrwot**, **D.**, Nakatumba-Nabende, J., & Chaudron, M. R. (2021). Integration of design smells and role-stereotypes classification dataset. *Data in Brief*, *36*, 107125.
- 4 Ashaba, A. A., Mirembe, D. P., Tumusiime, R., & **Ogenrwot**, **D.** (2019). A rule induction attribution selection algorithm for intrusion detection systems. *International Journal of Technology and Management*, *4*(1), 14–14.

Conference Proceedings

- Adong, P., Okure, D., Nsimbe, N., Odur, J., Ssematimba, J., Sserunjogi, R., ... Smith, M. et al. (2022). Sensor calibration to enhance large-scale low-cost air quality monitoring in sub-saharan africa. In *Fall meeting 2022*. AGU.
- **Ogenrwot**, **D.**, Tabo, G. O., Aber, K., & Nakatumba-Nabende, J. (2022). From undergraduate (software) capstone projects to start-ups: Challenges and opportunities in higher institutions of learning. In *Proceedings of the federated africa and middle east conference on software engineering* (pp. 73–82).
- ³Okure, D., Bainomugisha, E., **Ogenrwot**, **D.**, Sserunjogi, R., Adrine, P., Okello, G., ... Ssematimba, J. (2022). Building an africa-focused framework for air quality management: The role of low-cost sensors and digital platforms for effective data management and engagement for action. In *Fall meeting 2022*. AGU.
 - **Ogenrwot**, **D.**, Nakatumba-Nabende, J., & Chaudron, M. R. (2020). Comparison of occurrence of design smells in desktop and mobile applications. In *Acse*.

Masters Dissertation

Ogenrwot, **D.** (2021). Using machine learning to understand the association of design smells with role-stereotypes in software systems. Makerere University.

Undergraduate Project Report

Teaching Experience

Master Level

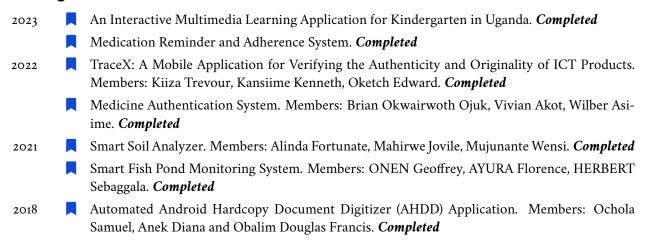
- Database Modeling [2019, 2021, 2022].
- Mobile Applications Development [2019, 2021, 2022].

Undergraduate Level

- Parallel Computation.
- Integrative Programming.
- Web Systems & Technologies II.
- Mobile Application Development in Java.
- Mobile Web Application Development.

Supervision Experience

Undergraduate



Research Collaborations

- Prof. Dr. Michel R.V. Chaudron Eindhoven University of Technology, Netherlands
- Prof. Dr. Engineer Bainomugisha Makerere University, Uganda
- Dr. Arif Nurwidyantoro Gadjah Mada University, Indonesia
- Mr. Satrio Adi Rukmono (PhD Student) Eindhoven University of Technology, Netherlands
- Dr. Joyce Nabende Makerere University, Uganda
- Dr. Drake Patrick Mirembe Makerere University, Uganda

Skills

Languages 📃 Strong reading, writing and speaking competencies for English and Luo.

Coding **Р**ython, Java, PHP, R, SQL, ...



Skills (continued)

Databases 📕 Mysql, Postgresql, sqlite, MongoDB, BigQuery.

Web Dev 📕 Нтмь, css, JavaScript, Apache Web Server, NginX.

Misc. Linux administration, Cloud computing, DevOps, Git & GitHub, Academic writing, Teaching, JEX, . . .

Miscellaneous Experience

Awards and Achievements

2019 MTN MOMO Open API Challenge, 1st Runner Up in the transport category.

Certification

- 2022 📃 IETLS. British Council
- 2020 **Huawei Certified ICT Associate-Artificial Intelligence (HCIA-AI)**. Huawei
 - **Google Cloud**. Google Africa Developers Training Program. Certificate of Course Completion
 - **Cloud Application Developer 2019 Mastery Award**. IBM Cloud.
 - **Cloud Application Developer 2019 Explorer Award** . IBM Cloud.
- 2016 **IELTS**. British Council

References

Prof. Engineer Bainomugisha

Head of Department, Computer Science College of Computing and Information Sciences Makerere University, Uganda baino@mak.ac.ug

Dr. Joyce Nabende

Head, Makerere University Artificial Intelligent Lab (MakAIR) Makerere University, Uganda ☑ j.nabende@mak.ac.ug

Dr. Benedict Oyo

Dean, Faculty of Science Gulu University, Uganda b.oyo@gu.ac.ug

Prof. Michel R.V. Chaudron

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