europass Curriculum vitae

PERSONAL INFORMATION

Kasozi Vincent

Chlef-Algeria

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Gender Male | Date of birth 4 Sep 1997 | Nationality Ugandan

RESEARCH VISION

To superhead the charge in leveraging formal methods to revolutionize the creation of correct and reliable systems. My vision is to pioneer a paradigm shift in the field of technology by establishing a new era where the design and implementation of flawless systems are effortlessly achievable.

EDUCATION

2021 – 2023

Master's Degree in Software Engineering

Universite Hassiba Benbouali de Chlef (Algeria)

Grade First class honors

Thesis Ligand-Based Virtual Screening: A deep learning approach to drug discovery using Graph Convolutional Neural Networks

Supervisor Dr Ahmed Abbache

2018 – 2021

Bachelors degree in Computer Science

Universite Hassiba Benbouali de Chlef (Algeria)

Grade First class honors

Thesis Computer Aided Diagnosis of Chest Diseases using Deep Learning

Supervisor Dr Ahmed Abbache

SUPERVISED RESEARCH PROJECTS

Bsc Thesis

A machine learning approach to malicious activity detection in computer network traffic.

As a research project, I worked with a group of students to develop a machine learning-based system for detecting malicious activity in computer network traffic. Our goal was to improve the accuracy and efficiency of detecting security threats in computer networks using deep learning.

Student Ercilio Bila Jose

Bsc Thesis

Lox, An object-oriented Imperative programming language.

As a research project, I worked with a group of students to develop an object-oriented imperative programming language. This language shares the same syntax as many C-like languages.

Student Marwa Hammamouche & Arioui Rihab

Msc Thesis

Implementing Interpretable Deep Convolutional Neural Networks: On making CNNs white box models.

In this project, we investigated what deep convolutional neural networks learn from image data during training. We focused on the localization of image pixels in image data that are used by CNNs when classifying images.

Student Alhassan Jerijees

Msc Thesis

Averting Adversarial Trickery in Convolutional Neural Networks processing Image data.

In this project, we implemented deep convolutional neural networks that are robust to adversarial trickery.

Students Sisasenkosi Sibanda & Auma Catherine Longole

TEACHING

2021 – 2023

University Teaching Assistant

As a teaching assistant, I introduced Haskell as a replacement for C in the first-year programming curriculum. I designed a curriculum that emphasized algorithmic thinking and problem-solving skills using the powerful type system of Haskell. Over several months, I worked with the students to develop a deep understanding of functional programming concepts and the Haskell language.

2017 – 2018

High School Teaching Assistant

I was a teaching assistant at NotreDame High School where I was teaching advanced high students Mathematics and Physics. My main areas of interest were pure mathematics and magnetism. I also taught low-level secondary students basic IT skills.

CONFERENCE VOLUNTEERSHIP

2022 PLDI

2022 Splash

2023 PLDI

MENTORSHIP

SIGPLAN-M

Mentors Dr. Alex Potanin, Dr. Fabian Muehlboeck & Justin Lubin

RESEARCH INTERESTS

Refinement Types

Program Analysis & Verification

Type Systems

Computational Biology

REFERENCES

Name Dr. Ahmed Abbache

Email a.abbache@univ-chlef.dz

Position Associate Professor at Chlef University

Name Dr. Sarah Ibri

Email s.ibri@univ-chlef.dz

Position Associate Professor at Chlef University

Name Dr. Tahar Abbes Mounir

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Position Dean