# EDWARD CHOME

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## EDUCATION AND TRAINING

**Ph.D.**

Computer Science
Eskisehir Technical University,
Turkey, 2016 to 2022

**Master of Science**

Computer Science
Anadolu University, Turkey
June 2016

**Bachelor of Science honors**

Information Systems
Midlands State University,
Zimbabwe
June 2011

## SUMMARY

Organized and. highly motivated, adaptable, and driven with a strong work ethic and eager to apply time management and organizational skills in various environments. Seeking opportunities to expand skills while facilitating company growth. Good interpersonal communication skills.

## SKILLS

- Project Management
- Project Planning
- Project Estimation
- Project Management
- Analytical Skills

## EXPERIENCE

### PROJECT MANAGER (BEWELL TECHNOLOGY)

*Bewell Technology | Eskisehir, Turkey | March 2022 – Present*
Duties and Responsibilities
- Planned and managed the work packages for projects.
- Monitor Project Progress and Set Deadlines
- Data Mining, Data Monitoring & Management, and software development.
- Used artificial intelligence techniques such as Machine Learning, Deep Learning, and Natural Language Processing, Computer vision to develop intelligent systems that minimize human intervention.
- Text Mining, Web Mining, and Data Analytics methods to analyze big data and make estimations on the developed model.

Participated/participating in Eureka, ITEA, PENTA, Celtic and H2020 (Horizon Europe) projects
Projects.
- **AICOM4HEALTH** – AI-Powered Communication for Health Crisis Management (ongoing Duration 3 years)

  **https://www.celticnext.eu/project-aicom4health/**

  **Description**

  The objective of AIcom4Health project is to offer an innovative solution towards recovering the pandemics' negative impacts on public health, healthcare access, and socioeconomics through remote monitoring -an AI-based platform's integration into the public's daily life whereas employing healthier citizens for smart cities s in the area of 5G and beyond, network slicing, edge computing, artificial intelligence and machine learning-based on

feasible use cases including both medical and non-medical sensors for making accurate decisions and predicting risks against contagion in the future.

Responsibilities

- Collect data from sensors that can measure air quality and get protective action by intelligently understanding it
- Collecting this data using different network topologies, developing these devices to work in any topology
- Processing the data collected at the end, depending on the usage scenario, and taking actions accordingly
- Implement, and develop security solutions to ensure that data is collected and transmitted securely
- Improve our experience in the areas of integration and international large-scale, multi-stakeholder projects and participate in the integration and demonstration of the international project

- **DAISY** – Developing AI ecosystems to improve the diagnosis and maintenance of mental diseases (ongoing Duration 3 years)

  **https://itea4.org/project/daisy.html**

  **Description**

  DAIsy will develop and bring to the market AI-supported solutions for improved diagnosis, treatment selection, monitoring with diet and activity tracking, support in behavior adjustments, and treatment response assessment. Novel AI techniques will jointly be developed to advance the AI applicability for these fragile patients by advancing techniques for large data points / patient ratios, improving explainability and uncertainty quantification.

  **Responsibilities**

  - Patient tracking using AI-equipped sensors (bracelet, measuring, heartbeat, temperature)
  - Developing a facial emotion recognition system using AI - deep learning,

- **DEEP4SAT43** – Geo-AI Ecosystem for tree (43) health inspection and early warning. Early plant disease detection and health inspection (AI- deep learning, AI for Agriculture) – (ongoing Duration 2 years)

  **https://ellipsis-drive.com/blog/the-deep4sat43-project---monitoring-unhealthy-trees/**

  **Description**

  The primary goal of the project is to monitor unhealthy fruit and forest trees from space and use this information to nip the affected vegetation in the bud. With pressure increasing on the agriculture industry to feed the growing population, the project continues to grow in relevance and importance with each passing day.

  **Responsibilities**-

  - Identify plant diseases and harmful diseases and develop an early warning system for farmers' awareness
  - Analyze image data collected from satellites/drones using

advanced AI algorithms
- Achieve the correct classification of satellite images and use it to develop other solutions

### SOFTWARE DEVELOPER (NEFES YAZILIM)

*Nefes Yazilim | Eskisehir, Turkey | June 2019 – July 2021*

- Developed Accounting Information Systems for clients embedded with analytics
- Integrated and deployed recommender systems for client's existing e-commerce systems, increased average order by 10%
- Developed and deployed AI models, for recommendations, clustering and classifying market segments for clients
- Developed modern applications with Php, Laravel, JavaScript, Java, Springboot, Python, React, Mysql, Postgres, and No SQL, Docker.

### FULLSTACK DEVELOPER (REMOTE)

*Nerdility | UK | October 2020 – February 2021*

- Engineered modern applications with Java, Spring boot, JavaScript, React, Mysql, Postgres, and No SQL.
- Built innovative microservices and Web Services (incl. REST).
- Efficiently deployed and integrated software engineered by team and updated integration/deployment scripts to improve continuous integration practices.

### IT SUPPORT INTERNSHIP (NOCZIM-PETROL-TRADE)

NOCZIM-PETROL-TRADE | *Zimbabwe | June 2009 – July 2010*

Responsibilities
- Identify user issues, diagnose the problems, and deliver workable solutions
- Troubleshooting software including Microsoft Office Suites and Active Directory
- Managing access and assigning appropriate permissions

## EDUCATION BACKGROUND

### PH.D. COMPUTER SCIENCE (*Eskisehir Technical University)*

*ESTU | Eskisehir, Turkey | Sept 2016 – Sept 2022*
**Thesis:**
Clustering based on hyperplanes (Machine learning)
**Description**
- Clustering of large and high dimensional datasets using maximum margin clustering methods

### MSC. COMPUTER SCIENCE (*Anadolu University)*

*Anadolu University | Eskisehir, Turkey | September 2014 – June 2016*
**Thesis:**
On Edge linking (computer vision, image processing)
**Description**
- Conventional edge detectors often leave gaps between edges or

sometimes they make spurious edges, edge linking edges fills these gaps and validates them.

**BSC. HONOURS INFORMATION SYSTEMS (***Midlands State University)*

*MSU | Gweru, Zimbabwe | August 2006 – June 2011*

## PUBLICATIONS

- **ORCID iD**: https://orcid.org/0000-0002-2065-1498
- PEL: A Predictive Edge Linking algorithm. Journal of Visual Communication and Image Representation, 36. **https://doi.org/10.1016/j.jvcir.2016.01.017**
- CannySR: Using smart routing of edge drawing to convert Canny binary edge maps to edge segments. INISTA 2015 International Symposium on Innovations in Intelligent SysTems and Applications, Proceedings. **https://doi.org/10.1109/INISTA.2015.7276784**
- Robust and Compact Maximum Margin Clustering of High-Dimensional Data, submitted to neuro-computing journal May 2022

## LANGUAGES

English, Shona, Turkish (intermediate)

## REFERENCES

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