Alexander Tamunominji Harry

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EDUCATION

Master of Science in Computer Science

Philipps-University Marburg, Marburg Germany • October 2023 - Present

Bachelor of Science in Computer Engineering

Kharkiv National University of Radio Electronics • Kharkiv, Ukraine • September 2018 – June 2022
• Grade: 87.2 / 100

SKILLS

Technical Skills:
- Programming: Python, JavaScript, TypeScript, Scala, C++, C#, HTML5, CSS3, MySQL, React.js, Node.js
- Web Development: Flask, Dash, Material UI, Responsive Design, REST APIs, JSON
- Data Analysis & ML: Pandas, PyTorch, TensorFlow, Keras, NumPy, Apache Spark, CNN, Computer Vision
- DevOps & Tools: Jira, Confluence, Git, GitHub, GitLab CI/CD, Docker, Podman, Jupyter Notebook, Microsoft Office (Word, PowerPoint, Excel)
- Visualization: Plotly, OpenGL, Interactive Dashboards, Data Visualization
- Simulation: Cellular Automata, 3D Modeling, Kinematics Simulation

Soft Skills:
- Scrum/Agile Project Management, Team Leadership & Coordination, Technical Documentation & Requirements Gathering, Problem-solving (Algorithm Design, System Architecture), Time Management & Organization

Languages:
- English: Native (C2)
- German: Intermediate (B1)

PROJECTS

Interactive Schedule Planner for Academic Courses

Developed a web application for planning university course schedules with conflict detection and drag-and-drop functionality.
Led as product owner, implementing Scrum processes and managing project documentation.

Tech Stack & Features:
- React.js, TypeScript, Material UI, HTML5 Local Storage, Node.js, NPM, GitLab CI/CD Pipeline, Drag-and-drop interface, Conflict detection, Data import/export, Responsive Design, Scrum methodology

Web-Based Restaurant Data Display Application

github.com/AlexanderH00/Restaurant-Data-Display-Application
Built an application to help users discover restaurants by postcode and rating, featuring an interactive map. Led development workflow and integrated frontend with backend components.

Tech Stack & Features:
- HTML/CSS, JavaScript, Python, Flask, Git, Responsive Design, Interactive Map Interface, JSON Processing, Agile Development JavaScript, Responsive Design, Interactive Map Interface

Personal Portfolio Website

https://alexanderharry.com
Independently developed a responsive portfolio website with clean UI, smooth navigation, and interactive project galleries.
Implemented modern web development practices with cross-browser compatibility.

Tech Stack & Features:
- HTML5, CSS3 (Flexbox/Grid layouts), JavaScript (ES6+), Git Version Control, Chrome DevTools, Responsive design, Portfolio project showcase, Dynamic content display, Interactive navigation, Contact form integration, Dark/light toggle

CIFAR-10 Image Classification Using Convolutional Neural Networks

github.com/AlexanderH00/Neural-Networks-Image-Classification
Designed and implemented a CNN architecture achieving 69.58% accuracy on the CIFAR-10 dataset. Managed the entire ML pipeline from data preprocessing to performance documentation.

Tech Stack & Features:
- Python, TensorFlow, and Keras for model training

COVID-19 Interactive Data Visualization Dashboard

github.com/AlexanderH00/COVID-19-Interactive-Dashboard-main
Created an interactive dashboard to visualize global pandemic data with customizable charts, maps, and filters. Independently managed the full development lifecycle from data pipeline to UI implementation.

Tech Stack & Features:

- Python with libraries (Dash framework, Plotly.js, Pandas), Git Version Control, Real-time data updates
- Interactive geographical maps, Time-series trend analysis, Country comparison tools, Customizable visualization options, Downloadable reports
- WHO COVID-19 API integration

Industrial Robot Operation Simulation Platform (NURE)
Engineered a 3D simulation platform for industrial robots, implementing realistic kinematics and a virtual manufacturing environment. Led the technical team while establishing development milestones.
Tech Stack & Features:
- OpenGL, .NET Framework, C#, 3D modeling, Kinematics calculations, Physics simulation, Real-time robot visualization, Programmable robot movements, Customizable manufacturing environments, Collision detection, Process simulation, Performance metrics tracking

Bachelor's Thesis – Simulation of Resource Consumption Dynamics in Distributed Systems Using Cellular Automata
Researched the application of cellular automata models to resource consumption in distributed systems. Implemented simulation algorithms and visualization tools while establishing correlations between biological systems and network resource dynamics.
Tech Stack & Features:
- Python, NumPy, MATLAB, NetLogo, Customizable cellular automata rules, Parameter sensitivity analysis, Resource consumption visualization, Pattern detection algorithms, Cross-domain application framework

EXPERIENCE

Ground Handling Service Agent
DHS Dortmund-Handling-Service GmbH (Fraport)   March 2024 – Present, Frankfurt, Germany
- Perform efficient check-in procedures for multiple international airlines, including ITA, Pegasus, LOT, and Air Baltic, ensuring accurate passenger documentation verification and baggage processing.
- Manage gate operations, including boarding announcements, priority boarding coordination, and final verification of travel documents before aircraft entry, while maintaining consistent communication with Technical Resource Coordinators (TRC) and Operations (OPS) teams at the gate.
- Resolve passenger inquiries and provide exceptional customer service while adhering to airline-specific policies and procedures.
- Coordinate with flight crews, airport staff, and airline representatives to ensure on-time departures and smooth operations
- Utilize various airline-specific computer systems and databases to process passenger information, weight balancing, seat assignments, and special service requests.

Sales Assistant
LaGrace Communication Company   September 2021 – February 2022, Kharkiv, Ukraine
- Employed a blend of strategic thinking, creativity, analytical prowess, and robust communication skills to drive sales marketing efforts. This approach was instrumental in boosting sales growth and increasing brand visibility.
- Oversaw customer order management, handling processes such as order fulfillment, tracking, and documentation within Document360. My role enhanced seamless customer experience and fostered continuous improvements in service delivery.
- Played a vital role in prioritizing customer feedback, thoroughly documented within Document360, which fostered customer loyalty and drove the company's sustainable growth.

IT Support (Intern)
Ashbard Energy Company Limited   February 2021 – April 2021, Port Harcourt, Nigeria
- Maintained the dependable functionality and performance of computer systems and networks by focusing on network optimization for reduced latency, thereby enhancing overall user experience.
- Actively managed both hardware and software, maximizing operational efficiency, reducing downtime, enhancing system performance, and ensuring a smooth user experience.
- Analyzed system changes, identified emerging trends, and gathered insights. This data-driven approach enabled informed decision-making, facilitated effective resource allocation, and guided strategic improvements for the future.
- In collaboration with teams, I conducted comprehensive performance analyses to identify and address technical issues. This collaborative approach was crucial in ensuring the timely and efficient completion of tasks and goals, adhering to set deadlines.