

# MUHAMMED ELIWAT

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## Education

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**Wayne State University, Detroit, MI**

*Bachelor of Science in Computer Science | Sep. 2022 – Present*

## Experience

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**Game Developer | Godum Games | Remote**

May 2020 – Present

- Designed, developed, and released a mobile game for both **iOS** and **Android** using Unity and **C#**.
- Implemented in-app purchases (IAP) and Google Ads, which contributed to over **100+** downloads.
- Optimized game performance by improving asset management and reducing memory footprint by **20%**, resulting in smoother gameplay and a better user experience on low-end devices.
- Implemented unit and integration testing to ensure bug-free releases.

## Projects

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**Transaction Handler Discord Bot | Python, APIs, Automation, Cloud Services**

*Sep. 2023*

- Built an automated system in **Python** to handle over **1,000** active subscription-based interactions, processing more than **10,000 messages per day**.
- Provided users **authentication via token** to automatically process transactions on their behalf.
- Integrated Text-OCR and RESTful APIs to handle image and text processing with a 95% accuracy rate.
- Incorporated webhook-based notifications for real-time communication with users, improving response times by 25%.

**Image Classification Project | PyTorch, CNN, Machine Learning, Data Augmentation**

*Mar. 2024*

- Designed and implemented a convolutional neural network (CNN) model capable of classifying images with an **accuracy of 92%**, utilizing advanced data augmentation techniques to enhance model generalization.
- Integrated GPU-accelerated training, **reducing model training time by 35%** through the optimization of hyperparameters such as learning rate, batch size, and dropout.
- Utilized PyTorch's autograd feature to create custom loss functions and optimizers, further improving the model's ability to handle edge cases in image classification tasks.

**Assignment Reminders Application**

*Present*

- Designing and building **Python Flask** application where students register their account for assignment notifications via SMS.
- Integrating server with **production Canvas APIs** for retrieving students assignments.
- Storing user details and notification intervals in **SQLite database**.
- Code runs on scheduled intervals to **poll APIs** for upcoming assignments and triggers SMS notifications to students.

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## Technical Skills

**Languages:** Python, C++, C, JavaScript

**Frameworks:** Unity, PyTorch, Flask

**Developer Tools:** Git, VS Code, Google Cloud

**Libraries:** pandas, NumPy, Matplotlib