

# MALACHI TZUOO

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## Education

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### Depaul University

Bachelors of Science in Software Development

2022

GPA: 3.3/4.0

- Dean's List 2022

### Linkoping University

Bachelors of Business in Business Administration

2021

(GPA averaged into above)

## Certifications and Technologies

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- [Aws Certified Developer - Associate](#) (2024-2027)
- **Software:** GitHub, Ruby on Rails, React, Java, Python3, PyTorch, Scrum

## Professional Experience

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### Revature, VA (Remote) - *Ruby Full Stack Software Developer*

March 2023 - July 2023

Technology development company which provides talent acquisition for corporate and government partners.

- Achieved proficiency in full-stack development by crafting web applications, notably a blogging app which allows users to share posts online and interact with other users in real time, using Ruby on Rails for the backend, complemented by JavaScript/TypeScript, HTML and CSS for React-powered frontend
- Employed PostgreSQL as the primary database solution, while facilitating JSON-based data exchange between frontend and backend through Axios and RESTful APIs to create an AWS deployed web application with RDS.
- Designed and implemented CI/CD pipelines from scratch within GitHub, improving efficiency by automating code deployment and streamlining workflows across multiple repositories.

## Projects

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### Revature Blogger

- Revature Blogger is a web and Internet-facing app made for Revature. Individuals can create accounts and share blog contents with the public. Primary role on the team being in the **DevOps** department during phases of design, development, testing and implementation by writing **CI/CD** pipelines for **GitHub Actions** to automatically build and test code with every commit to Github. Utilizes primarily **Ruby on rails, REST API, React, AWS, GitHub** and **Extreme Programming** agile methodology

### Mario Screaming Bot

- "Mario Screaming" bot is a side project made in **Javascript** for syntax practice and entertainment. Uses token authentication for usage. Hosted on Replit and uses uptimerobot to maintain bot uptime autonomously. Used for miscellaneous functions, such as joining voice chat to play audio, altering texts, etc.

### Airline Shortest Path

- Airline shortest path is a program in **Python** made as a summer project for syntax and algorithms practice. The program generates a number of points labeled as "terminals" and a weight for each path for "distance". Then the program would connect the nodes randomly to create a node graph and simulate how airline terminals are connected. Given the finished node graph, dijkstra's algorithm is run to determine the shortest path given a starting location

### (Side AI GitHub Projects)

- Dalle-mini is an image generation program available to the public before the more powerful dalle-2 was available. Uses **Pytorch** to generate images after being trained by images the user feeds into the AI
- Dalai Llama is an AI model which offers a range of downloadable libraries, available in different sizes, and supports multiple prompts for user customization. The project utilized its AI models deployed on a **Docker** container on a MacOS, which resulted in a conversable chatbot