

# LINHONG DAI

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## Education

### Northeastern University

Sept 2021 – Aug 2024(Expected)

*Master of Science in Align Computer Science*

*Seattle, WA*

- Cumulative GPA: 3.88/4.0(current)
- Relevant Courses: Discrete Structures, Object-Oriented Design, Data Structures, Algorithms, Web Development, Database Management System, Android Mobile App Development, Foundations Artificial Intelligence

## Experience

### AwanTunai

June 2023 – Aug 2023

*Software Engineer - Northeastern University Experience Expo | Python, React*

*South Jakarta, Indonesia*

- Led an ML and API-based Product Categorization System (Name-Based) Project
- Built and trained an ML **BERT** model, elevating first-level product categorization accuracy from **75%** to **94%**, and second-level product categorization accuracy from **75%** to **91%**
- Enriched **BERT** model's capabilities across 2 levels of product categories by leveraging Indonesian language-based dataset with over **22000** entries and category labels
- Utilized **Flask** to create a system with **JWT** Authentication and **React** to build User Interface, and integrated the system with the **BERT** model

### Northeastern University

May 2023 – Current

*Teaching Assistant | Web Development*

*Seattle, WA*

- Provided guidance to students in understanding and troubleshooting HTML, CSS, JavaScript, and other relevant technologies
- Offered one-on-one support to students during office hours, addressing questions and clarifying concepts

## Projects

### Online Marketplace for Local Farmers | React, Node.js

Feb 2023 – May 2023

- Developed an user-friendly and effective platform for local farmers to sell their product
- Utilized **React** to implement an adaptive user interface, resulting in a **30%** increase in user engagement, and **Node.js** to develop and maintain server-side applications
- Managed a **MongoDB** database containing **11000** products, optimizing data retrieval and storage efficiency by 20%

### Best Game Mates | Kotlin

Sept 2022 - Dec 2022

- Developed and maintained an Android social media application to find allies using **Kotlin**, delivering user-friendly and performant mobile experiences
- Reduced data retrieval time by **30%** through effective utilization of **Retrofit** and optimized network requests
- Managed data for a user base exceeding **1000** users and posts by utilizing **Firebase**
- Utilized **MAP API** to empower users to share their gaming locations, fostering real-world connections among gamers

### AWS Serverless Web Application | Python, AWS, JavaScript

Sept 2021 - Dec 2021

- Led a team of 5 in designing a serverless healthcare application on AWS, employing **Python**, **JavaScript**, and **AWS** services
- Optimized application performance by integrating remote RESTful APIs through **AWS Lambda** and Amazon **API Gateway**, resulting in an impressive **30%** reduction in processing time
- Utilized **AWS Lambda** and **Amazon DynamoDB** to implement a back-end process for handling requests for the web application, reducing request latency by **25%**
- Built dynamic web page functionality using JavaScript, enhancing user interaction and interface responsiveness
- Utilized **AWS Amplify** to streamline application development, configure authentication, APIs, and host for a secure and scalable environment

## Technical Skills

**Programming Languages:** C++, Python, Java, JavaScript, Kotlin

**Technologies/Frameworks:** AWS, Git, LaTeX, Redis, React, Node.js, Spring Boot, MongoDB, MySQL, Flask, JWT