

# Quang Duc Nguyen

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## EDUCATION

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**Istanbul Technical University**

**2021 – 2025**

*B.S., Computer Engineering*

*Istanbul, Turkey*

- **GPA: 3.61/4.0**; Dean's High Honor List in Fall 2022

## WORK EXPERIENCE

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**New Mind Bilgi Yönetim Sistemleri**

**Jul. 2024 – Sep. 2024**

*AI Intern*

*Istanbul, Turkey*

- As an AI intern, I developed a neural net from scratch to perform tweet classification.
  - **Key Results:** > 90% in accuracy when tested with unseen data
  - **Stack:** PyTorch, FastAPI, Elasticsearch (for data extraction)

**Outlier AI**

**Dec. 2024 – Mar. 2025**

*Annotator*

*Remote*

- As an annotator, I corrected and refined generative AI model responses to coding prompts, enhancing model accuracy and utility.

## PROJECTS

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**Web Application for Olympiad Competition Preparation**

- As part of our Software Engineering course, my team followed software development practices to develop a web application to help students prepare for Olympiad competitions.
- **Stack:** React, Django, PostgreSQL, AWS EC2

**Neural Net for Multi Task Learning**

- I developed a neural net inspired by BERT architecture to perform three tasks simultaneously.
- **Stack:** PyTorch

**Simulating Spiking Neural Nets & Estimating Their Functional Connectivity**

- For my graduation project, I enhanced a computational method to realistically simulate neural network activity, improving stability and accuracy when estimating neuron-to-neuron connections.
- **Stack:** MATLAB

## RESEARCH EXPERIENCE

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**Istanbul Technical University, Neuroscience Modelling & Research Group**

**2024 – 2025**

*Research Assistant*

*Istanbul, Turkey*

- Applied dynamical systems and chaos theory to study the behavior of neural populations in human brains.

**Istanbul Technical University, Natural Language Processing (NLP) Research Group**

**2023 – 2024**

*Research Assistant*

*Istanbul, Turkey*

- Explored NLP fundamentals, learned to apply machine learning and deep learning to NLP applications.

## SKILLS & INTERESTS

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- **Certification:** Turkish Ministry of Industry and Technology's AI Expertise Program (2024)
- **Other technologies:** C, C++, Pandas, Seaborn, Generative AI models, Flask, MySQL
- **Skills:** Software & AI Engineering, Software Testing, Optimization, Automation, Research, Technical Writing
- **Interests:** Technology, Neuroscience, Linguistics, Yoga, Reading, Bread