

# DZHENGIZ YALMAZ

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## Education

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### BSc Computer Science, Queen Mary University of London (achieved 2:1)

2022-2025

Modules include: Object Oriented Programming, Algorithms and Data Structures, Database Systems, Software Engineering, Web Programming, Operating Systems, Neural Networks and Deep Learning.

#### Final Year Project: Optimizing Deep Neural Networks for Faster Inference

- Engineered a model compression pipeline for ResNet-18 using the CIFAR-10 dataset, utilizing Python and PyTorch.
- Achieved a 98% reduction in model size (42.66MB to 0.71MB) and a 10x speedup in inference latency (4.5ms to 0.44ms on ONNX runtime) by implementing Knowledge Distillation combined with INT8 Quantization.
- Analysed the trade-offs between FLOPs, memory usage, and precision, demonstrating that significant efficiency gains could be reached while maintaining >91% accuracy (vs 92.8% baseline).
- Authored a 10,000-word technical report detailing the experimental framework and benchmarking results across various pruning ratios and combined methods, critically analysing the trade-offs between computational efficiency and model accuracy.

### Computer Science and Mathematics, Newham College Access to Higher Education

2021-2022

- 45/45 Distinction + 15/15 Ungraded

## Technical Projects

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#### Pet Minder Application (Software Engineering Module)

- Co-developed a web-based matchmaking platform connecting pet owners with minders using React and Node.js.
- Implemented core functionality including geolocation-based search, user testimonials, and real-time availability filtering.
- Collaborated in an Agile team using Git for version control and produced comprehensive UML documentation.

#### Block Puzzle Game Development (Further OOP Module)

- Implemented the core game logic and state management for a puzzle application, adhering strictly to the MVC (Model-View-Controller) architectural pattern.
- Extended a skeleton codebase by applying OOP principles (Inheritance and Encapsulation) to complete the game loop, score tracking, and user interaction handling.

## Work Experience

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#### Kitchen Assistant/Cook | QM Students Union, London | Sept 2024 – Oct 2025:

- Maintained high standards of service and time management in a fast-paced environment while balancing full-time academic studies.

#### Teaching Assistant | Vibe Teacher Recruitment, London | Feb 2021 – Dec 2021:

- Supported student development and communicated complex concepts clearly, demonstrating adaptability and reliability.

## Other Skills

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**Languages:** Java, JavaScript, Python, C#, SQL(MySQL / H2), HTML5, CSS3

**Frameworks & Libraries:** Spring Boot, Spring Data JPA, React, Node.js, Axios, PyTorch

**Tools & Platforms:** Git, GitHub, Maven, Gradle, Linux/Unix

**Concepts:** RESTful APIs (JSON), MVC Architecture, OOP, Data Structures and Algorithms, Agile/Scrum