

Kristóf Váradi  
Computer Engineering  
TU Budapest  
Budapest, Hungary

+36-70-635-3303  
kristofvaradi@edu.bme.hu  
github.com/leakedweights

## Education

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Budapest University of Technology and Economics Computer Engineering, B.Sc. – Specialization: Systems Engineering – Coursework: Language Models for Predicting Clinical Trial Outcomes – Notable courses: Information Theory, Probability, Artificial Intelligence – GPA: 5/5 (prev. semester) 3.84/5 (cumulative)	2021 - 2025
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## Experience

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HUN-REN Wigner Research Centre for Physics Research Assistant, Quantum Information and Complex Systems Research Group – Contribution to Operations Research and Quantum Computing projects.	2024 - present Budapest
Budapest University of Technology and Economics Teaching Assistant, Databases (BMEVITMAB04) – Teaching laboratory classes for second-year undergraduate students. – Relational Database Design, SQL and Query Optimization within Oracle Database.	2023 - present Budapest
Evosoft (subsidiary of Siemens) Full-Stack Developer (internship) – Development of cloud infrastructure with AWS and Terraform. – Development of REST APIs and single-page applications.	2022 - 2023 Budapest

## Workshops, Conferences

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1. Mátyás Koniorczyk, Kristóf Váradi, Sandor Szabo. Graph Cliques and Quantum Annealing. In *VOCAL 2024: The 10th VOCAL Optimization Conference: Advanced Algorithms*. Corvinus University of Budapest, June 2024
  2. Kristóf Váradi. Clique Search on Erdős-Rényi Graphs – Methods for D-Wave Quantum Annealers. In *Pécs Workshop on Quantum Information*. Pécs Regional Committee, Hungarian Academy of Sciences; HUN-REN Wigner Research Centre for Physics, May 2024

## Software Projects

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Mincy Tools for training Consistency Models in JAX, source: leakedweights/mincy – Tools & technologies: JAX, Flax – Implementation of <i>Improved Techniques for Training Consistency Models</i> . – Implementation of <i>Multistep Consistency Models</i> (work in progress). – Implementation of <i>Latent Consistency Models</i> (work in progress). – Classifier-free guidance, inpainting, etc. (work in progress).	2024
Thorium An API to create AI chat applications with semantic search, source: leakedweights/thorium – Tools & technologies: Python, AWS, FastAPI, Terraform, Langchain – Retrieval-Augmented chat with ChatGPT using the OpenAI API – Embedding creation and storage with the OpenAI API, DynamoDB and Pinecone – Automated deployment to AWS Fargate using GitHub Actions and Terraform	2023

## Skills and Technologies

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Programming Languages: Python, TypeScript  
Cloud/Databases: AWS, SQL, Terraform, Docker  
Languages: English (C1), Hungarian (Native), German (Elementary)