

ING. JAKUB RADA

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EDUCATION

Czech Technical University in Prague Artificial Intelligence	09/2025 - present PhD
Czech Technical University in Prague Artificial Intelligence	09/2022 - 06/2025 Master (honors)
– Thesis: Probabilistic Modelling for Robust Scoring and Estimation of Geometric Relations	
European Summer in Artificial Intelligence Artificial Intelligence	07/2024 - 07/2024 Master / PhD
Korean Advanced Institute of Science and Technology Exchange programme	02/2023 - 06/2023 Master
Czech Technical University in Prague Artificial Intelligence and Computer Science	06/2019 - 06/2022 Bachelor (honors)
– Thesis: Comparing Exploration Methods in Partially Observable Stochastic Games	
Gymnázium, Praha 6, Nad Alejí 1952 General Purpose High School	09/2011 - 06/2019 High School

PUBLICATIONS

The ALNS metaheuristic for the transmission maintenance scheduling Journal of Heuristics / Springer Nature	05/2023 Paper
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EXPERIENCE

AI Engineering SWEHQ Part-time	09/2025 - present AI Engineer and Architect
– Typescript, NestJS, Python, Docker	
– AI engineer designing and building advanced Retrieval-Augmented Generation system for precise search and answering domain-specific questions based on private internal methodologies	
Web and Mobile Software Development SWEHQ Part-time	06/2022 - 09/2025 Software Engineer
– Flutter, Dart, Vue.js, Python, Javascript, Typescript, Django, Docker, Android, iOS	
– Medior software engineer building multiple complex web and mobile applications	
Web Software Development SWEHQ Part-time	06/2021 - 11/2021 Software Engineer
– Angular, Typescript, HTML, CSS, Javascript, NodeJS, Docker	
– Junior Frontend developer building a complex web app for a major financial group in the Czech Republic	
ROADEF Challenge 2020 CIIRC CTU Part-time	07/2020 - 06/2021 Researcher and Developer
– C++, C, Python	
– Researcher and developer of a custom metaheuristic algorithm to solve complex combinatorial optimization problem	
Front End Web Developer Scalesoft Part-time	08/2019 - 12/2019 Software Engineer
– CSS, Typescript, HTML, Javascript, NodeJS	

- Two-week internship before university translating into a part-time job during the first semester

HACKATHONS

Rakathon 2025

OnkoApp, 2nd place

04/2025

Prague, Czech Republic

- Web application helping doctors to clearly share intermediate results and educational information and manage and confirm appointments to reduce administrative burden therefore saving time for actual treatment.

Mistral AI Game Jam 2025

Shyguy's Wingman, 6th place

01/2025

Paris, France

- AI-powered game where user tries to convince the main character with text and voice to perform actions and reach the goal while the story and other characters develop according to an LLM

FELLOWSHIPS AND SOCIETIES

Upsilon Pi Epsilon

Honor Society

02/2024

Lifetime

ACHIEVEMENTS

Comparing Exploration Methods in Partially Observable Stochastic Games

Dean's award for exceptional Bachelor Thesis

11/2022

FEE CTU

ROADEF Challenge 2020

2nd place in the junior category

06/2021

EURO

Baltie 2011 International Round

3rd place

06/2011

SGP Systems

Baltie 2011 National Round

2nd place

05/2011

SGP Systems

CERTIFICATES

TOEFL iBT (116/120)

Reading 29, Listening 29, Speaking 28, Writing 30

09/2024 - 09/2026

2 years

Cambridge First Certificate in English (177/190)

Reading 179, Writing 160, Listening 190, Speaking 165, Use of English 190

06/2017

Lifetime

SKILLS

Languages: Czech, English, Spanish

Interests: Running, Lifting Weights, Learning, Coding, Reading

Programming Languages: C/C++, Python, Julia, Javascript/Typescript, Rust, Haskell, Java, Dart, HTML/CSS

Application Frameworks: Flutter, Vue.js, NestJS, Angular, Django, NodeJS, Docker

AI/ML Tools: PyTorch, NumPy, JAX, scikit-learn, DeepMind Control Suite, Gurobi, PySAT, HuggingFace, Transformers

Skills and Traits: Dilligence, Adaptability, Perfectionism, Problem solving, Responsibility