

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

Web and Mobile Software Development SWEHQ Part-time	09/2025 - present AI and Software Engineer
– Python, Typescript, Docker, NodeJS	
– Medior/Senior Full-stack developer and AI engineer building complex web and mobile applications, recently researching and building AI-powered RAG-like search system over private internal methodologies in finance	
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/Senior Full-stack developer and AI engineer building multiple complex web and mobile applications, recently researching and building AI-powered RAG-like search system over private internal methodologies in finance	
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

04/2025

OnkoApp, 2nd place

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

01/2025

Shyguy's Wingman, 6th place

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

02/2024

Honor Society

Lifetime

ACHIEVEMENTS

Comparing Exploration Methods in Partially Observable Stochastic Games

11/2022
FEE CTU

Dean's award for exceptional Bachelor Thesis

ROADEF Challenge 2020

06/2021
EURO

2nd place in the junior category

Baltie 2011 International Round

06/2011
SGP Systems

3rd place

Baltie 2011 National Round

05/2011
SGP Systems

2nd place

CERTIFICATES

TOEFL iBT (116/120)

09/2024 - 09/2026
2 years

Reading 29, Listening 29, Speaking 28, Writing 30

Cambridge First Certificate in English (177/190)

06/2017
Lifetime

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

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