

ING. JAKUB RADA

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EDUCATION

Czech Technical University in Prague 09/2022 - 06/2025
Artificial Intelligence Master

- A follow-up Master's programme with focus on Artificial Intelligence and Machine Learning

European Summer in Artificial Intelligence 07/2024 - 07/2024
Artificial Intelligence Master / PhD

- 2nd European Summer School on Artificial Intelligence and 21st Advanced Course on Artificial Intelligence

Korean Advanced Insitute of Science and Technology 02/2023 - 06/2023
Exchange programme Master

- Exchange programme in South Korea's top research university during my first year of Master's studies

Czech Technical University in Prague 06/2019 - 06/2022
Artificial Intelligence and Computer Science Bachelor

- Bachelor programme in Math, classic Computer Science topics, Optimisation and Artificial Intelligence

Gymnázium, Praha 6, Nad Alejí 1952 09/2011 - 06/2019
General High School for students aiming to attend a university High School

- One of the best High Schools in the Czech Republic providing great fundamentals in Math, Natural Sciences and Social Sciences

FELLOWSHIPS AND SOCIETIES

Upsilon Pi Epsilon 02/2024
Honor Society Lifetime

PUBLICATIONS

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

HACKATHONS

Rakathon 2025 04/2025
OnkoApp Prague, Czech Republic

Mistral AI Game Jam 2025 01/2025
Shyguy's Wingman Paris, France

EXPERIENCE

Web and Mobile Software Development 06/2022 - present
SWEHQ | Part-time Software Engineer

- Flutter, Dart, Vue.js, Python, Javascript, Typescript, Django, Docker, Android, iOS
- Development of multiple complex mobile and web applications in various languages. Specifically, a social mobile app for organizing events (Joinly), a web app for aggregating and selling holiday tours (Airstop), a web app for one of the Ministries of the Czech Republic and a monitoring system for analogue missions (CommonTongue). Currently, I am working on an AI-powered search engine for a local financial company to help them process internal methodologies.

Web Software Development 06/2021 - 11/2021
SWEHQ | Part-time Software Engineer

- Angular, Typescript, HTML, CSS, Javascript, NodeJS, Docker
- Frontend developer for a complex web application for a major financial group in the Czech Republic. As a junior developer, I was responsible for the implementation of precise design, components for data visualisation and fixing bugs.

ROADEF Challenge 2020

CIIRC CTU | Part-time

07/2020 - 06/2021

Researcher and Developer

- C++, C, Python
- Research and development of an algorithm to solve an international competition in discrete optimisation ROADEF 2020. Due to the high complexity of the problem instances we had to develop a metaheuristic algorithm instead of an exact one.

Front End Web Developer

Scalesoft | Part-time

08/2019 - 12/2019

Software Engineer

- CSS, Typescript, HTML, Javascript, NodeJS
- A two-week internship before starting Bachelor studies which then translated into a part-time job during the first semester.

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

2nd place in the junior category

EURO

Baltic 2011 International Round

06/2011

3rd place

SGP Systems

Baltic 2011 National Round

05/2011

2nd place

SGP Systems

CERTIFICATES

TOEFL iBT (116/120)

09/2024 - 09/2026

Reading 29, Listening 29, Speaking 28, Writing 30

2 years

Cambridge First Certificate in English (177/190)

06/2017

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

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, Angular, Django, NodeJS, Docker

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

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