

# BC. JAKUB RADA

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## EDUCATION

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**Czech Technical University in Prague** 09/2022 - present  
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 Institute 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

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**Upsilon Pi Epsilon** 02/2024  
Honor Society Lifetime

## PUBLICATIONS

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

## EXPERIENCE

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**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, a web app for one of the Ministries of the Czech Republic and a monitoring system for analogue missions (CommonTongue).

**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** 07/2020 - 06/2021  
CIIRC CTU | Part-time 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

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### Daegu International Half Marathon 2023

10th place

04/2023

Daegu International Marathon

### Soul Marathon 2023 Relay

1st place

03/2023

Seoul Marathon

### 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 + paper published in the Journal of Heuristics

06/2021

EURO

### Baltic 2011 International Round

3rd place

06/2011

SGP Systems

### Baltic 2011 National Round

2nd place

05/2011

SGP Systems

## CERTIFICATES

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### Cambridge First Certificate in English (177/190)

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

06/2017

Lifetime

### TOEFL iBT (116/120)

Reading 29, Listening 29, Speaking 28, Writing 30

09/2024 - 09/2026

2 years

## SKILLS

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**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

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

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