

# BC. JAKUB RADA

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## SKILLS

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**Languages:** Czech, English, Spanish

**Interests:** Running, Gym, Learning, Coding, Reading, Hip-Hop music

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

**Application Frameworks:** Flutter, Vue.js, Angular, Django, NodeJS

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

**Skills and Traits:** Hardworking, Adaptability, Precision, Quick learner, Attention to Detail, Clean code, Problem solving, Responsibility

## EDUCATION

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<b>Czech Technical University in Prague</b>	<b>09/2022 - present</b>
Artificial Intelligence	Master

- Master programme following the Bachelor programme with focus on Artificial Intelligence and Machine Learning.

<b>European Summer in Artificial Intelligence</b>	<b>07/2024 - 07/2024</b>
Artificial Intelligence	Master / PhD

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

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

- Exchange programme in South Korea during my first year of Master's studies. Apart from the new things I learned, it gave me plenty of experience into my future life.

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

- Bachelor programme consisiting of Math, Algorithms and Computer Architectures and Introduction to Optimization and Artificial Intelligence

<b>Gymnázium, Praha 6, Nad Alejí 1952</b>	<b>09/2011 - 06/2019</b>
General Education 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

## CERTIFICATES

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<b>TOEFL iBT (116/120)</b>	<b>09/2024 - 09/2026</b>
Reading 29, Listening 29, Speaking 28, Writing 30	2 years

<b>Cambridge First Certificate in English</b>	<b>06/2017</b>
B2 certificate in English	Lifetime

## MEMBERSHIPS AND SOCIETIES

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<b>Upsilon Pi Epsilon</b>	<b>02/2024</b>
Honorary Society	Lifetime

## PUBLICATIONS

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**The ALNS metaheuristic for the transmission maintenance scheduling**  
Journal of Metaheuristics / Springer Nature

**05/2023**  
Paper

## EXPERIENCE

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### Web and Mobile Software Development

SWEHQ | Part-time

06/2022 - 09/2024

Software Engineering

- Flutter, Dart, Vue.js, Python, Javascript, Typescript, Django, Docker, Android, iOS
- Developing multiple complex mobile and web apps in various languages. Namely, a social mobile app released for both iOS and Android (Joinly), a web app for aggregating and selling holiday tours, a web app for one of Ministries of the Czech Republic and a web app serving as a monitoring system for analogue missions (CommonTongue). Worked on both Frontend and Backend parts.

### Web Software Development (Kappka)

SWEHQ | Part-time

06/2021 - 11/2021

Software Engineering

- Angular, Typescript, HTML, CSS, Javascript, NodeJS, Docker
- Development of a complex web application tool for mortgages for a big financial group. I worked on the front-end part of the application using Angular and Typescript.

### ROADEF Challenge 2020

CIIRC CTU | Part-time

07/2020 - 06/2021

Researcher and Developer

- C++, C, Python
- Research and development of a solution for an international competition in discrete optimization. The problems were too large to be solved exactly so we had to derive a complex Metaheuristic algorithm to find approximate solutions.

### Front End Web Developer

Scalesoft | Part-time

08/2019 - 12/2019

Software Engineering

- CSS, Typescript, HTML, Javascript, NodeJS
- Two-week internship before the first academic year, where I made both determinate and indeterminate progress indicators in pure CSS. This then translated into one semester long part-time job, where I worked on a web app.

## ACHIEVEMENTS

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### Daegu International Half Marathon 2023

10th place

04/2023 - 04/2023

Daegu International Marathon

### Soul Marathon 2023 Relay

1st place

03/2023 - 03/2023

Seoul Marathon

### Comparing Exploration Methods in Partially Observable Stochastic Games

Dean's award for exceptional Bachelor Thesis

06/2022 - 06/2022

FEE CTU

### ROADEF Challenge 2020

2nd place in the junior category + paper published in the Journal of Heuristics

06/2021 - 06/2021

EURO

### Baltic 2011 International Round

3rd place

06/2011 - 06/2011

SGP Systems

### Baltic 2011 National Round

2nd place

05/2011 - 05/2011

SGP Systems