

# BC. JAKUB RADA

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## 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

## EDUCATION

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

- A follow-up Master's 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's top research university during my first year of Master's studies

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

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

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

## 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 (177/190)</b>	<b>06/2017</b>
Reading 179, Writing 160, Listening 190, Speaking 165, Use of English 190	Lifetime

## MEMBERSHIPS AND SOCIETIES

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

## PUBLICATIONS

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<b>The ALNS metaheuristic for the transmission maintenance scheduling</b>	<b>05/2023</b>
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

08/2019 - 12/2019

Scalesoft | Part-time

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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### Baltic 2011 National Round

05/2011

2nd place

SGP Systems

### Baltic 2011 International Round

06/2011

3rd place

SGP Systems

### Comparing Exploration Methods in Partially Observable Stochastic Games

11/2022

Dean's award for exceptional Bachelor Thesis

FEE CTU

### Soul Marathon 2023 Relay

03/2023

1st place

Seoul Marathon

### Daegu International Half Marathon 2023

04/2023

10th place

Daegu International Marathon

### ROADEF Challenge 2020

06/2021

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

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