

# BC. JAKUB RADA

Prague, Czechia · 25/02/2000 · jakubrada@icloud.com · +420 604 730 409 · www.jakubrada.com

## SKILLS

---

**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

---

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

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

<b>European Summer in Artificial Intelligence</b> Artificial Intelligence	<b>07/2024 - 07/2024</b> 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> Exchange programme	<b>02/2023 - 06/2023</b> 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> Artificial Intelligence and Computer Science	<b>06/2019 - 06/2022</b> 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> General Education High School for students aiming to attend a university	<b>09/2011 - 06/2019</b> High School
---	---

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

## CERTIFICATES

---

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

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

## MEMBERSHIPS AND SOCIETIES

---

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

## PUBLICATIONS

**The ALNS metaheuristic for the transmission maintenance scheduling**

Journal of Heuristics / Springer Nature

**05/2023**

Paper

## EXPERIENCE

**Web and Mobile Software Development**

SWEHQ | Part-time

**06/2022 - present**

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

**Baltic 2011 National Round**

2nd place

**05/2011**

SGP Systems

**Baltic 2011 International Round**

3rd place

**06/2011**

SGP Systems

**Comparing Exploration Methods in Partially Observable Stochastic Games**

Dean's award for exceptional Bachelor Thesis

**11/2022**

FEE CTU

**Soul Marathon 2023 Relay**

1st place

**03/2023**

Seoul Marathon

**Daegu International Half Marathon 2023**

10th place

**04/2023**

Daegu International Marathon

**ROADEF Challenge 2020**

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

**06/2021**

EURO