

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

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|---|--------------------------|
| Czech Technical University in Prague | 09/2022 - present |
| Artificial Intelligence | Master |

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

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| 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

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|---|--------------------------|
| Korean Advanced Insitute of Science and Technology | 02/2023 - 06/2023 |
| 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.

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

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

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| Gymnázium, Praha 6, Nad Alejí 1952 | 09/2011 - 06/2019 |
| 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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| TOEFL iBT (116/120) | 09/2024 - 09/2026 |
| Reading 29, Listening 29, Speaking 28, Writing 30 | 2 years |

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| Cambridge First Certificate in English | 06/2017 |
| B2 certificate in English | Lifetime |

MEMBERSHIPS AND SOCIETIES

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| Upsilon Pi Epsilon | 02/2024 |
| Honor Society | 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