Bc. Jakub Rada

jakubrada@icloud.com · www.jakubrada.com · GitHub: radajakub · LinkedIn: radajakub

Education

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 Insitute 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

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

Publications

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

Hackathons

Rakathon 2025 — **04/2025**
OnkoApp — Prague, Czech Republic

Mistral AI Game Jam 2025 — **01/2025**
Shyguy's Wingman — Paris, France

Experience

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

Comparing Exploration Methods in Partially Observable Stochastic Games	**11/2022** FEE CTU
Dean's award for exceptional Bachelor Thesis	
ROADEF Challenge 2020	**06/2021**
2nd place in the junior category	EURO
Baltie 2011 International Round	**06/2011**
3rd place	SGP Systems
Baltie 2011 National Round	**05/2011**
2nd place	SGP Systems

CERTIFICATES

TOEFL iBT (116/120)	**09/2024 - 09/2026**
Reading 29, Listening 29, Speaking 28, Writing 30	2 years
Cambridge First Certificate in English (177/190)	**06/2017**
Reading 179, Writing 160, Listening 190, Speaking 165, Use of English 190	Lifetime

SKILLS

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, Responsibilility