

BC. JAKUB RADA

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SKILLS

Languages: Czech, English, Spanish

Interests: Running, Gym, Coding, Reading, Learning, Rap music

Programming Languages: C/C++, Julia, Python, 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: Adaptability, Precision, Quick learner, Attention to Detail, Clean code, Problem solving, Responsibility

EDUCATION

Czech Technical University in Prague **09/2022 - 09/2025**
Artificial Intelligence Master

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

Korean Advanced Institute of Science and Technology **09/2023 - 09/2023**
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.

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

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

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

EXPERIENCE

Cross-platform Mobile App Development (WeAllMeet.live) **06/2022 - 11/2023**
SWEHQ | Part-time Software Engineering

- Flutter, Dart, Python, Django, Docker, Android, iOS
- Developing a cross-platform social mobile application in the Flutter framework with backend in Python and Django. We started from scratch and successfully released it to both App Store and Google Play.

Web Software Development (Kappka) **06/2021 - 11/2021**
SWEHQ | Part-time 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 **07/2020 - 06/2021**
CIIRC CTU | Part-time 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

20/2019 - 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.

PROJECTS

Resume / Personal portfolio webpage

Free-time personal project

09/2023 - 10/2023

Personal

- Vue.js, Typescript, HTML, CSS

Soft Actor-Critic algorithm implementation

Semestral project in Mathematical Foundations of Reinforcement Learning

06/2023 - 06/2023

KAIST

- Python, PyTorch

Implementation of KAIST Educational C Compiler in Rust

Semestral project in Compiler Design

02/2023 - 06/2023

KAIST

- Rust

Developing a novel approach to Dimensionality Reduction using Graphs

Semestral project in Graph Machine Learning and Mining

05/2023 - 06/2023

KAIST

- Python, PyTorch

Double Oracle Algorithm for solving zero-sum normal-form games

Semestral project in Julia programming language University course

01/2023 - 02/2023

FEE CTU

- Julia

Comparing Exploration Methods in Partially Observable Stochastic Games

Bachelor Thesis combining Game Theory and Reinforcement Learning

09/2021 - 05/2022

FEE CTU

- Julia, LaTeX, Python

Evolutionary and Memetic Algorithms

Semestral project from Evolutionary Algorithms

09/2021 - 01/2022

FEE CTU

- C++, Python, LaTeX

Pong game for a microcontroller

Semestral project in Computer Architectures

06/2020 - 06/2020

FEE CTU

- C

Chess Game with GUI and simple artificial player

Semestral project in Java

02/2020 - 05/2020

FEE CTU

- Java, JavaFX

Flashcards web app ran in Electron

Graduation project at High School

02/2019 - 05/2019

GNA

- Javascript, HTML, Python, CSS, Django

Baltie 3 projects

Graphical programming language Baltie 3 to learn C/C++

- Baltie 3

09/2008 - 09/2012

Extracurricular

ACHIEVEMENTS

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

Cambridge First Certificate in English

Official B2 level certificate in English

06/2017 - 06/2017

Cambridge English

Baltie 2011 International Round

3rd place

06/2011 - 06/2011

SGP Systems

Baltie 2011 National Round

2nd place

05/2011 - 05/2011

SGP Systems