

# Krystof Latka

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## EDUCATION

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### University of California, Los Angeles (UCLA)

Los Angeles, CA

*Bachelor of Science, Computer Engineering*

*Expected June 2026*

- Relevant coursework in first year: Software Construction, Algorithms and Complexity, Computer Organization, Linear Algebra, Multivariable Calculus

### Stanford University

Stanford, CA

*Visiting high-school summer student*

*June 2021 - August 2021*

- Completed coursework: Programming Abstractions in C++ (Data Structures and Algorithms)

### PORG - gymnázium a základní škola

Prague, Czech Republic

*International Baccalaureate Diploma*

*June 2022*

- IB Subjects: Mathematics Analysis and Approaches HL, Physics HL, Chemistry HL, Economics HL, English A Language and Literature SL, Spanish B SL
- Overall grade: 44/45 IB points (top 2% of candidates)

## TECHNICAL SKILLS

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**Languages:** Python, C++, Java, Dart, JavaScript

**Frameworks:** Flutter, Git

**Developer Tools:** Visual Studio Code, Android Studio, Xcode

**Libraries:** Python: TensorFlow, Keras, NumPy, Pillow, Rosp; JavaScript: React.js

**Other:** Microsoft Office, Autodesk Fusion 360, Tracker

## EXPERIENCE

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### Research Assistant

July 2021

*Department of Mechanics, Czech Technical University*

*Prague, Czech Republic*

- Conducted research on microstructure reconstruction via artificial neural networks in TensorFlow
- Evaluated the impacts of different configurations of the neural network on the model's predictive abilities
- Presented research results at the "Nano and Micro Mechanics 2021" conference for doctoral students

### Intern

June 2021 - July 2021

*Computational Robotics Laboratory, Czech Technical University*

*Prague, Czech Republic*

- Post-processed data recorded at a field trip with various autonomous robots
- Utilized the Rosp library to write Python scripts and used them to extract desired data from Robot Operating System (ROS) files

## LEADERSHIP AND SERVICE

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### Chief App Developer

September 2020 - June 2022

*Vervit*

*Prague, Czech Republic*

- Student non-profit, providing technological help to senior citizens in Czechia, primarily through videos on [YouTube](#)
- Published over 50 instructional videos
- Developed *Vervit* mobile application, freely available on [iOS](#) and [Android](#), using Flutter UI Toolkit

### Captain of Programmers

August 2020 – June 2021

*R.U.R. Team #5996*

*Prague, Czech Republic*

- Lead the programming division (6 programmers) of the only Czech FIRST Robotics Team
- Coordinated the development of robot code written in Java

## PUBLICATIONS

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**Latka, K., Doskar, M. and Zeman, J., 2021.** Microstructure reconstruction via artificial neural networks: A combination of causal and non-causal approach. [online] Available at: <https://doi.org/10.14311/APP.2022.34.0032>