



Mihkel-Kaarel Raidal

CHEMISTRY AND PHYSICS

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PERSONAL

- Nationality: Estonia
- Gender: Male
- Birth Date: 17.10.1996
- Marital Status: Single
- Military Service: Completed

KEY SKILLS

- Python (Numpy, Pandas, Pytorch)
- Computational Chemistry
- Machine Learning
- Linux
- Image Recognition
- MS Excel, Powerpoint, Word
- Drivers Licence (Category B)

LANGUAGES

- ESTONIAN | Native
- ENGLISH | Fluent
- JAPANESE | Learning
- RUSSIAN | Beginner

EDUCATION

MASTER'S DEGREE, CHEMISTRY AND PHYSICS DURHAM UNIVERSITY

Durham is one of the UK's leading universities. Its Chemistry and Physics departments are listed as top 5 in the UK and top 100 in the world.

- Predicted to graduate with the highest degree classification given in the UK universities - First class degree (graduating in June 2021).
- Masters thesis: "Molecular simulation of cold atoms in optical tweezers".

EXPERIENCE

MACHINE LEARNING ENGINEER

Estonian Institute of Chemical and Biophysics, Estonia | Jun - Oct 2020

My role involved working with theoretical physicists on relevant projects in cooperation with CERN and provided technical assistance in programming machine learning algorithms.

- Applied supervised learning to create image, language and data recognition models using Pytorch and Tensorflow.
- Designed a multidimensional Bayesian optimiser for hyperparameter optimisation.
- Gained experience in good programming practises and commonly used software.

MATERIAL RESEARCH AND DEVELOPMENT INTERN

PragmatC Printing limited, Sedgefield, UK | Jul - Oct 2019

My role was to research properties of thin-film materials alongside the rest of the R&D team. My findings about different metal-oxides were used in further active research.

- Conduct independent research by reading research papers, forming a hypothesis and verifying it experimentally using scientific equipment.
- Introduction to material simulation software.
- Observed the basics of integrating technology on a medium scale of production.
- Gained experience working in a team and giving presentations.

FOUNDER

Radial Space OU, Tallinn, Estonia | Jan 2018 - Current

Radial Space is my own company that I created to learn entrepreneurship skills in different areas such as product development for the Amazon market, investing, and travel hosting. The company has thus far grossed total revenue of 100 000€.

- Running a company has taught me leadership, responsibility, and decision making.
- Effective self-development to succeed in previously unknown fields like product innovation, marketing, financial markets and consumer data analysis.
- Learned how to communicate clearly and concisely.

MEDIC, SOLDIER

Estonian Defence Force, Võru, Estonia | Oct 2016 - Jun 2017

I spent a year serving my mandatory military service where I completed specialised training.

- Learned invaluable skills in providing First Aid and emergency medical treatment.
- Performed well under extreme stress by remaining calm and patient.
- Developed good teamwork and strong trust with my squad members.