Timo Hromádka

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Education

King's College London (KCL), London *September 2019 - June 2022*

- Computer Science BSc (Class of '22)
- First Class Honours (Final Mark: 82)

Work Experience and Projects

Data Scientist/Bioinformatician (CircaGene) *February 2023 - Present*

- Working to help detect diseases and risk factors from genetic material of samples. Part of the entire process from genetic sequencing, cleaning/denoising, data analysis, and AI/statistical modelling.

NLP/Web & User Data Processing Research Intern (KInIT) *July 2022 - Present*

- Conducting research in Multilingual Previously Fact Checked Claim Retrieval, with a paper on track for ACL approval, helping enhance the fake news detection pipeline for fact-checkers via the CEDMO hub pipeline.
- Led a team to win 6 gold medals, 1 silver, and 1 bronze at the SemEval 2023 Task 3
- Skills/tasks include literature reviewing, cleaning/processing large datasets, data analysis, algorithm development, model training, Docker, WandB, HuggingFace, PyTorch.

King's Undergraduate Research Fellowship (KCL) - UML Models from Sketches *June 2022 - October 2022*

- Chosen from a large pool of applicants, conducted research in image segmentation, computer vision, data analysis, and algorithms to develop an application to convert handwritten UML diagrams into a digital format.
- Skills include dataset management, image segmentation, OCR, machine learning, model training, presenting.

Individual Project, Misinformation Detection (KCL) *November 2021 - April 2022*

- Implemented and combined various techniques in feature extraction, classification, paraphrasing, model architectures, algorithm development, dataset cleansing/noise reduction to detect Covid fake news.
- Skills included model training, dataset management/filtering, machine learning, and research/implementation in NLP topics (network architectures, embeddings, seq2seq).

Teaching Assistant (KCL) *September 2020 - March 2022*

- Chosen as one of the few TA's based on merit and grades to teach undergraduate students in **Logic** and **Computer Systems,** conducting in-person and online tutorials, amassing numerous votes for Teaching Assistant award for 2021/22.
- Skills include time management, student responsibility, regular preparation, dynamic/active communication with a large group of students, individual help, custom example creation, and supportive and communicative attitude.

Computer Vision Intern (Slovak Academy of Sciences) *August 2020*

- Designed a program to control a CNC machine to create high resolution stitched photos of gallery paintings.
- Skills include Python, OpenCV, and RaspberryPi.

Programming Languages and Skills

Python (experienced, ML, AI, visualization, PyTorch, pandas, sklearn, NumPy, matplotlib, seaborn, OpenCV, spaCy)

C++ (proficient, data structures, optimization, OO design, competitive programming)

Java (proficient, JavaFX, Unit Testing, OO design, app development)

Scala (proficient, functional, algorithms), **SQL** (proficient), **Ubuntu** (experienced, terminal navigation, regular user), **Android Studio (**proficient, front-end), **Prolog** (proficient), **Ruby on Rails** (beginner), **Figma** (Design Prototyping)

English (bilingual), **Slovak** (bilingual), **German** (B2 certificate with excellence), **Chinese** (Conversational, HSK 2 level)

Leadership and Extracurricular Activities

Informatics SSLC Representative (KCL) - Facilitated communication between students and staff (Student-Staff Liaison Committee), improved student welfare, handled and discussed sensitive topics about inclusion, race, diversity.

Informatics Committee Representative (KCL) - Initiated social events for the Informatics student community.

President and Founder of Calisthenics Club (KCL) - Founded the KCL Calisthenics Club, worked as a training officer at weekly workouts, collaborated with Calisthenics clubs across the country (UCL, QM, Brunel) for large workout sessions.

Miscellaneous - Piano (grade 8+), Band, Guitar, Bass, Youth Harmony Music Festival guide, Rubik's Cubes (3 national records in blindfold disciplines), Chess Club (first team at KCL), Children's Oncological Center volunteer.