

Marek Masiak

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EDUCATION

University College London

BSc Computer Science

Sep. 2020 – Jun. 2023 (expected)

London, UK

EXPERIENCE

Co-Founder & Chief Technology Officer

Calmsie

Apr. 2020 – Present

Lublin, Poland

- Participated in the creation of a platform combining telemedicine panel, medical chatbot and recommendation system for mental health support as a fullstack developer from day one
- Designed the initial architecture of the platform and developed API, web platform and mobile application prototypes

Software Developer

Interdisciplinary Centre for Mathematical and Computational Modelling UW

Feb. 2020 – Sep. 2020

Warsaw, Poland

- Designed and developed a web platform using Django and Bootstrap for tracking the consumption of resources and automating computing grants proposal submission
- Designed and developed a web platform for ICH HPC users to regain access to ICM resources after they have lost their accounts
- Technologies in use: Python, Django, jQuery, Bootstrap, nginx

Summer Research Intern

Interdisciplinary Centre for Mathematical and Computational Modelling UW

Jul. 2019 – Feb. 2020

Warsaw, Poland

- Researched computational optimizations for linear algebra algorithms, such as matrix-matrix multiplication
- Implemented an algorithm ~9 times faster at multiplying 1000x1000 matrix on 8 cores than the classic algorithm
- Technologies in use: C++, MPI (Open MPI), Slurm

PUBLICATIONS

Marek Masiak, et al., *Critique of "Computing Planetary Interior Normal Modes with a Highly Parallel Polynomial Filtering Eigensolver"*, IEEE Transactions on Parallel and Distributed Systems (DOI: 10.1109/TPDS.2021.3050997)

ACADEMIC AND PROFESSIONAL ACTIVITIES

Virtual Student Cluster Competition, SC20 Competition

Nov. 2020

Euro-Par 2020: European Conference on Parallel and Distributed Computing Student Volunteer

Aug. 2020

Student Cluster Competition, ISC20. Frankfurt, Germany Competition

Jun. 2020

Supercomputing Frontiers Europe 2020 Conference Talk

Mar. 2020

Student Cluster Competition, SC19. Denver, USA Competition

Nov. 2019

Innovative Economy. The Role of Economic Policy 2018 Conference Talk

Sep. 2018

ACADEMIC SOCIETIES AND VOLUNTEER WORK

Tutor, Gifted Children Program, Polish Children's Fund Volunteer

May 2020 – Jun. 2020

- Conducted tutorials about Twitter sentiment analysis for crypto currency trading
- Conducted tutorials about language modeling with Tensorflow

Warsaw Team, ICM UW Society

Aug. 2019 – Present

- Weekly meetings to prepare for upcoming student cluster competitions
- Team Captain from July 2020 to November 2020

TECHNICAL SKILLS

Frameworks: Django, MPI

Developer Tools: Git, Slurm, VS Code, PyCharm, IntelliJ

Languages: Python, C/C++, Java, HTML/CSS, Bash