

Oliver Midbrink

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Work Experience

Karolinska Institutet Scholarship (2024-ongoing):

- LLM AI models for generation of novel synthetic micropeptides, as well as applying transformer models for sequence classification of micropeptide cellular localisation.

Full Stack Developer at Izano Health AB (2024)

- Developed an app based on Ionic (extension of react native) for ios/android. Auth0 authentication and FastAPI backend.
- The app has an algorithm to give user recommended questions and user recommended health advice in a personalized, time dynamic way.
- Developed an admin Dashboard for monitoring groups of app users.

Machine Learning Engineer consulting for BioBloxx AB (2024):

- Modified a state of the art model (Transformer base + U net segmentation head) to be able to also incorporate a new for of input data alongside the DNA sequence. Basically a learned cell type embedding that is added to the transformer output before the U-net segmentation part. Jax and haiku used.

Research Assistant at Göteborg University (2022/06 - 2022/07)

- Assisting with medical research in cartilage- and bone physiology as well as planning and designing a research experiment to test a potential drug candidate. We worked on formulating the drug candidate for intra-articular injection for osteoarthritis treatment.
- Job tasks included immunostaining, cryosectioning and confocal microscopy, lipid-nanoparticle research, and data analysis.

Team Leader at We Know It (2021):

- Software Engineer at We Know IT (with project leader responsibility)

Solution provider for KTH union (2021/04 - 2022/04)

- Developed a QR-code based attendance system for our union meetings.

Education

M.Sc. Computer Science, KTH Royal Institute of Technology (2020 - Ongoing). GPA 4.76/5

Natural Sciences, Viktor Rydbergs Gymnasium, Djursholm (High School Equivalent, 2017 - 2020) GPA 19.27 / 20.

Languages

Swedish (Native), **English** (Fluent) with TOEFL Score: 105/120 (Advanced), **Spanish**, B1 level certificate from EF, **Chinese**, basic knowledge.