

Alexander Jonsson

[Email](#) | [Github](#) | [LinkedIn](#) | [Portfolio](#) | Gothenburg, Sweden

EDUCATION

Nanyang Technological University Singapore Exchange Semester in Engineering Mathematics and Computational Sciences	08/2025 - 12/2025e Singapore
Chalmers University of Technology M.Sc. and B.Sc. in Engineering Physics (GPA: 4.5/5.0 , Rank: 5/93) <i>Bachelor thesis:</i> Data-driven quantum error correction using graph neural networks	08/2022 - 06/2027e Gothenburg, Sweden
School of Business, Economics and Law at University of Gothenburg B.Sc. in Business Administration and Economics	08/2023 - 06/2026e Gothenburg, Sweden

WORK AND PROFESSIONAL EXPERIENCE

Quantitative Research Internship <i>Private Company</i> , Quantitative Finance <ul style="list-style-type: none">Engineered and enhanced a framework for cross validation using Monte Carlo Permutation techniques for model hyperparameter optimisationDesigning and backtesting commodity and cryptocurrency trading strategies, reported improvement of out of sample Sharpe Ratio by 2.4, under NDA	05/2025 – 08/2025 Europe
Machine Learning Summer Internship NCC, Engineering and Construction <ul style="list-style-type: none">Creating a Lidar-2-BIM machine learning framework for point cloud segmentation using RandLA-Net, reaching 0.4 mIoU with a sparse datasetFurther developing NCC AB's operational system using a retrieval-augmented generation (RAG) pipeline, drastically reducing lookup cost per message by >90%	06/2025 – 08/2025 Gothenburg, Sweden
Co-Founder <i>Jonsson Naucclér AB</i> , Quantitative Finance <ul style="list-style-type: none">Utilising methodologies from engineering physics courses to create and validate trading strategies, traded actively during 2024Using Python for backtesting, logic, and machine learning to achieve credible trading outcomes	06/2023 – Present Gothenburg, Sweden
Data Science Summer Internship NCC, Engineering and Construction <ul style="list-style-type: none">Developed an end-to-end classification system for risk data using generative AI and data science, reaching over 85% accuracy on a task that previously required manual processingDesigned and implemented a concrete drying control system, saving >50% on nationwide construction drying time costs, production testing completed successfully, rollout under review	06/2024 – 09/2024 Gothenburg, Sweden
Machine Learning Summer Internship NCC, Engineering and Construction <ul style="list-style-type: none">Independently created an AI model for tender price predictions, by using an XGBoost blend I managed to obtain a $\pm 25\%$ accuracy with sparse dataCreated a framework for energy optimisation using data science and time series analysis	06/2023 – 08/2023 Gothenburg, Sweden

EXTRACURRICULAR ACTIVITIES

Chalmers Capital Management <i>Head of Quantitative Department</i> , Student Association <ul style="list-style-type: none">Currently managing a team of ten, creating a fully automatic virtual fundPublished three articles including "Variations on a Theme – Combinatorial Holdout Cross Validation"	02/2024 – Present Gothenburg, Sweden
Fika Association (Fikaföreningen) <i>President and Founder</i> , Student Association <ul style="list-style-type: none">Established a school-wide association intended to bring people from different parts of our school togetherWithin a few months, grew the association to become the largest in the school, engaging over 30% of all total students	10/2019 – 06/2022 Gothenburg, Sweden

ADDITIONAL

Language:	Swedish (native), English (fluent), German (basic)
Honors/other credits:	<ul style="list-style-type: none">Winner of the 2023 innovation physics competition for first year Physics students, ChalmersNational finalist at 2018 Pythagoras Quest (national mathematics competition)
Interests:	Off-piste alpine skiing, gym, Arsenal and cello