

Antonije Mirkovic

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EDUCATION

Norwegian University of Science and Technology	Norway
<i>Integrated M.Sc. Physics and Mathematics – Specialization in Industrial Mathematics</i>	<i>2023 – present</i>
<ul style="list-style-type: none">Accelerated track: Completed advanced third-year mathematics courses (functional analysis, abstract algebra, complex analysis) within first year; consistently top grades.Coursework: Stochastic Modeling, Probability Theory, Optimization, Machine Learning, Algorithms	

AWARDS

- Accepted into Jane Street Zurich Portal – 2025
Top 1% in the Norwegian Mathematical Olympiad Qualifications (Abel Competition) – 2021
Invited to Y Combinator's private YC x Paris event – 2025
Qualified for Norwegian Bench Press Championship – 2024

EXPERIENCE

Alumco	2025
<i>Founding Software Engineer</i>	
<ul style="list-style-type: none">Developed and iterated 8 AI product builds, applying rapid prototyping and statistical A/B testing to optimize and analyze user engagement (1000+ customers, 3M+ views).Engineered and deployed 2 production-grade platforms, translating algorithms into code and optimizing for scalability and real-time performance.Built forward-deployed feedback agent in 4 days, leveraging context engineering and applied machine learning to improve real-time prediction accuracy and user interaction.	
Norwegian Armed Forces	2021 – 2022
<i>Combat Engineer</i>	
<ul style="list-style-type: none">Developed strong decision-making skills under pressure and worked collaboratively in high-stakes environments.Led small technical units on complex engineering tasks, honing precision, discipline, and collaboration under high pressure conditions.	

PROJECTS

Cardinality-Constrained Portfolio Optimization <i>Python, SciPy, CVXPY, Mixed-Integer Optimization</i>	2025
<ul style="list-style-type: none">Implemented Δ-CCMV algorithm for efficient frontier analysis under cardinality and transaction cost constraints; evaluated portfolio performance and allocation strategies.	
High Frequency Crypto Trading Strategy <i>Python, Pandas, NumPy, Matplotlib</i>	
<ul style="list-style-type: none">Developed, backtested and automated a BTC–SOL correlation trading strategy using slippage modeling and ATR-based take-profit logic; generated consistent returns passively while attending classes.	
ECG Arrhythmia Tracker <i>Python, TensorFlow, NumPy, Next.js, Expo</i>	
<ul style="list-style-type: none">Built a full iOS app for real-time PVC detection and burden calculation, integrating 1D CNN for time-series classification and live ECG visualization.Tested with real ECG data streams, achieving reliable PVC burden estimation and providing practical health insights to help people with heart conditions stay safe during workouts.	

SKILLS

- Languages:** Python, C++, R, Julia, TypeScript, JavaScript, React
Technologies: NumPy, Pandas, SciPy, CVXPY, TensorFlow, Matplotlib, Qiskit, Next.js
Mathematics: Probability Theory, Statistics, Stochastic Modeling, Time-Series Analysis, Optimization, Machine Learning, Scientific Computing, Linear Algebra, Functional Analysis, Measure Theory