

# DARIUS FOODEEI

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## EDUCATION

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### ETH Zurich — Swiss Federal Institute of Technology Zurich

Zurich, Switzerland

*M.Sc. Computer Science — Machine Intelligence & Theoretical Computer Science*

2025 – 2027

- Coursework: Robot Learning, Large Language Models, Probabilistic AI, Algorithms for Data Science, Computational Models of Motion and Control

### EPFL — Swiss Federal Institute of Technology Lausanne

Lausanne, Switzerland

*B.Sc. Computer Science*

2022 – 2025

- Coursework: Operating Systems, Functional Programming, Neural Engineering, Theory of Computation, Computer Security, Algorithms, Machine Learning, Computer Architecture, Probabilities and Statistics, Calc 123, Linear Algebra, Physics

## RESEARCH & TECHNICAL EXPERIENCE

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### ETH Robotics Club (ETHRC) — Humanoid Project Lead

Zurich, Switzerland

*Software Lead*

2025 – Present

- Architecting the full software stack for a student-built humanoid, integrating NVIDIA's open source GR00T VLA and Whole-Body Controller for end-to-end data collection, dexterous manipulation and navigation for the Unitree G1.
- Implementing Diffusion Steering with Latent Space RL for GR00T N1.6 to improve SR on bin picking and manipulation tasks (in collaboration with Cartier and PayPal).

### EPFL ML & Optimization Lab

Lausanne, Switzerland

*Semester Project under Prof. Martin Jaggi*

Fall 2024

- Benchmarked semantic uncertainty across decoding methods (speculative sampling, multi-token prediction, chain-of-thought) on QA, summarization, and code generation tasks.
- Contributed to inference pipeline design for the Swiss AI 70B open-source LLM.

### ISIC 2024 Skin Cancer ML Competition

*Kaggle Silver Medal — Top 20%*

Summer 2024

- Built a dual-headed attention model with sparse encoding for high-recall lesion classification; deployed inference via AWS in the Noma app with Teladoc integration.

### Suilend — Smart Contract Engineer & Quant Researcher

Remote

*Part-time (suilend.fi — \$950M TVL, largest DeFi protocol on Sui)*

2024 – 2025

- Quantitative modeling for liquidity optimization and interest rate derivatives; smart contract development in Move.
- Backend engineering on a lean team of 6, majority ex-GAFAM.

### Trader Joe DEX — Backend Engineering Intern

Remote

*Algorithmic Trade Router*

2023

- Built a fractional swap router partitioning trade amounts across liquidity pools for optimal pricing on multiple EVM chains (\$120B+ cumulative volume).

### Honey Labs — Co-Founder & CTO

Remote

*Money Market on Solana & Ethereum*

2020 – 2022

- Raised \$3.8M seed round (Jan 2022); led team of 8 engineers; oversaw OtterSec security audit; acquired end of 2023.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, Rust, Move, Solidity, Java, Scala, JavaScript/TypeScript, SQL, Assembly

**ML & Robotics:** PyTorch, CUDA, IsaacLab/Sim, Nvidia COSMOS, ROS2

**Tools:** Git, Docker, AWS, Kubernetes, Hardhat, Foundry, React Native

**Spoken Languages:** English (native), French (native), German (B2)

## AWARDS & RECOGNITION

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### **Swiss National Science & Youth Competition — 2nd Place**

*Astrophysics project on dark matter and Milky Way mass distribution; presented to a national jury of professors and scientists. 2020*

### **ETH Zurich Hackathon Winner — Gelato VRF**

*On-chain Verifiable Random Function using DRand beacon; awarded Gelato developer grant; natively deployed on Gelato RaaS with \$10B+*

### **Founderful Campus Fund — Student VC Partner**

*Led pre-seed deal for Stacksync (YC Fall 2023).*

*2023 – 2024*