Lukas Scheucher

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Work Experience

CTO - Compass Labs, London April 2023 - present

We are building backtesting and execution tools for the digital asset space.
Co-created the initial product, then hired and now technically leading a team of 5 engineers to expand and add features.
Targeting large institutional clients.
We raised close to 2M USD of VC funding, including a16z and other top tier investors.
www.compasslabs.ai

Founder in Residence - Entrepreneur First, London Mar 2022 - May 2022

I went through the Entrepreneur First accelerator where I explored several ideas. Met my Compass Labs co-founder here. Entrepreneur First is a global talent investor that helps individuals find co-founders, develop startup ideas, and build high-growth technology companies from scratch.

Software Engineer - Google X, Munich Nov 2019 - Dec 2021

I joined Google as an AI software engineer. Initially working on internal tools before moving to GoogleX. Ideated and built an MVP for an AI-based monitoring tool to detect anomalies and prevent outages. Spun out into separate team. At Google X I worked on a wearable device, where I owned the ML training pipelines (Python). Recently featured in Time magazine.

Deep/Machine Learning Engineer - Volkswagen, Munich Jul 2018 - Oct 2019

I was responsible for developing the 2D perception pipeline in a push for autonomous driving. Model research, development, training, testing and eventually deployment to an embedded Nvidia device in the car. Real time object detection, Model development, training, selection, compression and testing. PyTorch, Tensorflow, CUDA, C++, ...

Research Work

Post Graduate Work - TUM, Munich Jul 2017 - Jun 2018

Uncertainty quantification and optimization in physical simulations using Bayesian methods and machine learning. Collaborative development of a C++ research code (Full CI/CD pipeline). Visualization of complex simulation output using ParaView, Plotly, D3.js, ...

Visiting Graduate Researcher - Stanford University, California Oct 2016 - Jul 2017

Implemented gradient computation in a C++ fluid dynamics code. This code is used by the US Army to develop new planes.
Application: Parametric shape optimization of flexible wings.

Education

M.Sc. - TUM, Munich Sep 2015 - Jun 2017

Majored in Computational Engineering and High-Performance Computing. Overall Grade 1.6. Final thesis grade: 1.0 (best).
Research in uncertainty quantification in physical simulations using bayesian methods and machine learning. Design optimization.
Collaborative development of a C++ HPC codebase.

B.Sc. Mechanical Engineering Sep 2012 - Jun 2015

Focus on Computational Engineering. I was in the top 1% of students.

Professional Certifications - Online, Multiple
Over the years, I have been keeping up with trends and technologies through courses. Among others: Blockchain Developer Nanodegree, Deep learning specialization, Decentralized finance by Duke University,
Full list on LinkedIn

Technical Skills

- **Languages**: Python, C++, Solidity, Go, SQL, JavaScript, Bash
- **Frontend**: Next, React, Electron, CSS, SASS
- **Backend**: Node.js, Databases, SQL, API development, DevOps, CI/CD, Terraform
- **Machine Learning**: Computer Vision, Recurrent Networks, Deep Learning, Model training and selection. Model compression.
- **Blockchain**: Bitcoin, Ethereum, Solidity, web3.js, Smart-Contracts
- **Developer Tools**: Git, Docker, Google Cloud Platform, VIM, IntelliJ, AI tools for developers
- **Libraries**: Tensorflow, Pytorch, OpenMP, MPI, CUDA, Pandas, NumPy, Matplotlib, Plotly, Dash, Streamlit, ...
