Lukas Scheucher

✉ scheuclu@gmail.com | ☎ 0043-677-6100-3595 | ⦿ scheuclu | in scheuclu

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Work Experience

CTO/co-founder - Compass Labs, London   June 2022 - present

- I built a backtesting ad execution framework to onboard institutions easily into the digital assets space.
- Personally hired (and now leading) 5 engineers accross the stack.
- Raised 2M USD of VC funding, among other from a16z and other top tier investors.

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

- I went through the Entrepreneur First accelerator where I explored several ideas, which eventually culminated in Compass Labs.
- 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 in working on internal tools before moving to GoogleX.
- Ideated and build 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 waearable 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 resaerch, 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 in physical simulations using bayesian methods and machine learning.
- Design optimization under uncertainty.
- Collaborative development of a C++ research code (Full CI/CD pipeline).
- Visualization of complex simulation output using Paraview, Plotly, D3.js, ...
- Held several positions as teaching assistant.

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

- Implemented gradient computation in a C++ fluid dynamics code
- Application: Parametric shape optimization of flexible wings.
- Audited Stanford lecture series on machine learning by Andrew Ng.

Education

Post Graduate Researcher - Munich, Germany   Jul 2017 - Jun 2018

- Uncertainty quantification in physical simulations using bayesian methods and machine learning
- Design optimization. Collaborative development of a C++ HPC codebase.

M.Sc. Mechanical Engineering - TUM, Munich   Oct 2015 - Jun 2017

- Majored in Computational Engineering and High Performance Computing.
- Visiting Researcher at Stanford University

- Overall Grade 1.6. Final theses 1.0.

B.Sc. Mechanical Engineering - TUM, Munich   Oct 2012 - Jun 2015
- Majored in Mechanical Engineering
- Overall Grade 1.4. Final theses 1.0.

Professional Certifications - Online, Multiple
- Total of 16 professional certifications including
  - Blockchain Developer Nanodegree - Udacity
  - 5-part deep learning specialization - Deeplearning.ai
  - Decentralized finance - Duke University
  - Full list on LinkedIn

Technical Skills

- Languages: Python, C++, Solidity, Go, SQL, Javascript, Bash
- Frontend: Next, React, CSS, SASS
- Backend: Postgres, SQL, API development, Databases, 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
- Libraries: Tensorflow, Pytorch, OpenMP, MPI, CUDA, Pandas, NumPy, Matplotlib, Plotly, Dash