Lukas Scheucher

lukas@scheuclu.com | **0043-677-6100-3595** | **scheuclu** | **scheuclu**

Work Experience

CTO - Compass Labs, London March 2023 - present

- I started as founding engineer, building our backtesting tool, visualization dashboard as well as our backend on GCP.
- I eventually took over as CTO. Here, I actively engage with customers. I am also in charge of hiring and technical management.
- I am also involved in fundraising and investor relations and we raised 1.5M from a tier-1 US VC.

Freelance Software Engineer, Remote May 2022 - March 2023

- Working as a freelance engineer on projects focusing on data-science and backend engineering.
- Thanks to my generalist background, I've been helping early-stage startups building up their MVPs, setting up their backend and CI/CD pipelines, improving their code, etc.
- Working with Toptal, A.team and other platforms.

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

- I was accepted into the 2022 cohort and spent 2 months working with dedicated individuals on blockchain/web3 ideas.
- Unfortunately, I did not find the right co-founder/idea.

Software Engineer - Google, Munich Nov 2019 - Dec 2021

- Using data analysis on production logs to improve reliability across Google. Used tensorflow, Go and Apache flume
- Came up with - and lead - a successful internal project combining data analysis and visualization.
- **Google X** "the moonshot factory": Data analysis on an experimental wearable device. Owned whole Python codebase and training pipeline.

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

- Worked as an applied machine learning engineer, mainly on computer vision for autonomous driving.
- 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
- **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

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