

Anselm Coogan *Software Engineer*

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🌐 <https://github.com/AnselmC>
📍 US Citizen

👤 Profile

Senior Software Engineer with expertise in cloud-based computer vision systems, seeking a new challenge at a small, fast-paced startup in the US as an ML engineer. Proven track record of rapid career advancement and leadership in bringing highly complex products to market.

📁 Professional Experience

Senior Software Engineer I & Tech Lead, *Scandit* ✨

2023/06 – present | Zurich, Switzerland

- Built ShelfView ✨ - a new product enabling retailers to lift sales by giving actionable recommendations for their store operations
- Architected cloud pipeline leveraging state-of-the-art machine learning and computer vision algorithms to create a digital twin of shelf
- Improved system performance by reducing error rate by 80% within one quarter
- Built failure analysis tooling & performance tracking to improve turn-around-time for quality hill climbing - leveraged by 10+ engineers on a daily basis
- Go-to-person on the engineering side during pilot operations with leading US companies in retail and quick-commerce

Software Engineer II & Tech Lead, *Scandit*

2022/01 – 2023/06 | Zurich, Switzerland

- Built the pre-cursor to ShelfView: software deployed on autonomous robots in large retail environments to detect, localize, & read price labels. The solution was deployed with two major US retailers processing more than 5m images/day & resulting in >\$1m ARR
- Introduced new method for matching OCR'd text using Transformers resulting in 10% more robust matching than previous Levenshtein-based method

Associate Product Engineer, *Scandit*

2021/06 – 2021/12 | Zurich, Switzerland

Implemented monitoring tools to oversee the roll-out of computer vision software on autonomous robots across 300+ store locations in the US

Robotics Software Engineering Intern, *Brain Corporation* ✨

2019/03 – 2019/09 | San Diego, USA

- Developed features (navigation stack, UI) for autonomous scrubber software deployed to 10k+ cleaning robots
- R&D project on single-image camera calibration

Software Engineering Working Student / Freelancer,

Capgemini, Microstep, Pality, Various

2017/03 – 2021/03 | Munich, Germany

📁 Projects

taskr, *Side-project* ✨

API-first platform for integrating humans-in-the-loop into any workflow

le-gpt - CursorAI-like features for Emacs,

github.com/AnselmC/le-gpt.el

le-thesaurus - Thesaurus.com

integration into emacs,

github.com/AnselmC/le-thesaurus.el

Bundle Adjustment for 3D

Multi-Object Tracking,

github.com/AnselmC/bamot

Master's Thesis

🧠 Skills

Programming

- Python (expert)
- Clojure (learning)
- Web [TS/HTMLX/...] (familiar)
- C++ & Java (it's been a while)

Machine Learning

- PyTorch [Lightning]
- NumPy
- OpenCV
- Pandas

Scrum

Agile methodology, OKRs

🎓 Education

Robotics, Cognition, Intelligence -

M.Sc., TU Munich

2018/10 – 2021/03

Munich, Germany

- Machine Learning
- Deep Learning
- Computer Vision

Engineering Sciences - B.Sc.,

TU Munich

2014/10 – 2018/08

Munich, Germany

- Computer Science
- Natural Sciences