
Simon Kaufmann simon@skaufmann.org | simonkaufmann.org | [LinkedIn](#) | [Github](#)

SKILLS

C, Java, JavaScript (React, Node.js), Python (PyTorch), Linux (Debian), SQL, Docker, CI/CD, Electronics

EMPLOYMENT

Palantir Technologies

London, UK

Software Engineering Intern

June 2020 - September 2020

- Developed Object Search System for Palantir Foundry Data Integration Platform
- **Technology:** Java, Gradle, TypeScript | www.palantir.com

Cambridge Consultants

Cambridge, UK

Software Engineering Intern

June 2019 - August 2019

- Developed React web app, OpenCV object recognition and augmented reality experience for bar queueing system to improve efficiency and customer experience
- **Technology:** JavaScript (React, Node.js), Unity (C#), OpenCV, Docker | cambridgeconsultants.com

Aceso

Edinburgh, UK

Applications Engineering Intern

June 2018 - May 2019

- Developed cough detection device using machine learning model on STM32 embedded platform
- Built and tested data logger based on ESP8266 microcontroller to monitor data centre air conditions
- 60 finished devices shipped to customer in September 2018
- **Technology:** C++ (STM32 ARM), Python, Keras, MQTT, Web: Grafana | www.aceso.no

LIST Engineering OG

Innsbruck, Austria

Software Engineer

October 2014 - July 2016

- Developed firmware for energy consumption measurement device helping companies increase their energy efficiency
- Set up Internet of Things stack based on ThingSpeak
- **Technology:** C (Linux, Cypress PSoC ARM), C++ (Arduino), ThingSpeak

PROJECTS

More projects at github.com/simonkaufmann

Operating System 'Viennice' written in C

- Built operating system for x86 systems from scratch featuring a graphics and keyboard driver
- **Technology:** x86 Assembly (Protected Mode), C language, GRUB Bootloader | [github repository](#)

RF-Transmitter written in Python and C

- Developed transmitter for ARDF competitions used by the local amateur radio club
- Built customer identification system based on RFID
- **Technology:** C (Atmel AVR), Python (Linux, wxWidgets) | [github repository](#)

EMG Muscle Therapy Device written in C

- Developed firmware for a therapy device used by the NGO "A chance for children" helping children to recover after muscle injuries (using electromyography)
- **Technology:** C (GTK+, Linux on Raspberry Pi), C (Cypress PSoC) | [github repository](#)

Modulation Classification using Spiking Neural Network written in Python

- Developed model for radio signal modulation classification using Spiking Neural Network
- **Technology:** Python, Machine Learning: PyTorch, Xilinx Brevitas | [project website](#)

EDUCATION

University of Edinburgh

Edinburgh, UK

BSc Computer Science and Mathematics, First Class (Predicted)

2017 - 2021

- **Academic Tutor** Taught group of students for course *Introduction to Computation*
Topics include: Functional Programming (Haskell), Finite State Machines and Regular Expressions
- **KAL University Scholarship** Awarded by KAL ATM Software to top 1% of the year group

University of California, San Diego

San Diego, CA, US

Academic Exchange, Computer Science, GPA 3.94

2019 - 2020

ADDITIONAL EXPERIENCE

- **CreatED 2018** Organised first student-run hardware hackathon in UK (130 participants, 15 sponsors)
- **Spring Intern (Technology)** Deutsche Bank and Barclays in April 2019
- **MathPALS Leader** Led student group supporting first year students taking mathematics courses