
Simon Kaufmann simon.kaufmann@aon.at | simonkaufmann.org | [LinkedIn](#) | [Github](#)

SKILLS

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

EMPLOYMENT

Cambridge Consultants

Software Engineering Intern

Cambridge, UK

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

University of Edinburgh

Academic Tutor

Edinburgh, UK

September 2018 - May 2019

- Taught a group of students for the course "Introduction to Computation"
- **Topics** include: Functional Programming (Haskell), Finite State Machines and Regular Expressions

Aceso

Applications Engineering Intern

Edinburgh, UK

June 2018 - May 2019

- 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++ (Arduino), Python, MQTT, Web: Grafana | www.aceso.no

LIST Engineering OG

Software Engineer

Innsbruck, Austria

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 | www.list-engineering.at

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](#)

Reinforcement Learning 'Tic Tac Toe' written in Java and JavaScript

- Developed React web app with Tic tac toe playing agent independently trained using a reinforcement learning algorithm
- **Technology:** Java (Backend), JavaScript (React), Maven, Docker | [github repository](#)

EDUCATION

University of Edinburgh

BSc Computer Science and Mathematics

Edinburgh, UK

2017 - 2021

University of California, San Diego

Academic Exchange, Computer Science

San Diego, CA, US

2019 - 2020

MISCELLANEOUS

- **KAL University Scholarship** awarded by KAL ATM Software to top 1% of the year group
- **CreatED 2018** Organised first student-run hardware hackathon in UK (130 participants, 15 sponsors)
- **Spring Intern (Technology)** at Deutsche Bank and Barclays in April 2019
- **MathPALS Leader** Led student group supporting first year students taking mathematics courses