Simon Kaufmann

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EMPLOYMENT

Cambridge Consultants *Cambridge, UK*
Software Engineering Intern *June 2019 - August 2019*

- Developed bar queueing system involving web app, computer vision object detection and augmented reality experience
- **Technology:** Javascript (React, Node), Unity (C#), OpenCV, Docker | cambridgeconsultants.com

University of Edinburgh *Edinburgh, UK*
Academic Tutor *September 2018 - May 2019*

- Taught a group of students for the first year course “Introduction to Computation”
- Topics include: Haskell, Logic, Finite State Machines and Regular Expressions
- **Technology:** Haskell, Functional Programming

Aceso *Edinburgh, UK*
Applications Engineering Intern *June 2018 - May 2019*

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

PROJECTS

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

- Developed web app with Tic tac toe playing agent independently trained using reinforcement learning algorithm as showcase project
- **Technology:** Java (Backend), Javascript (React), Machine Learning, Docker | github repository

Operating System ‘Viennice’ written in C

- Developed operating system for x86 computer 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 a transmitter for ARDF competitions used by the local amateur radio club in Austria as final year project for HTL Anichstrasse
- **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

EDUCATION

University of Edinburgh *Edinburgh, UK*
BSc Computer Science and Mathematics *2017 - 2021*

University of California, San Diego *San Diego, CA, US*
Academic Exchange, Computer Science *2019 - 2020*

MISCELLANEOUS

- **Scholarship** awarded by KAL to top 1% of the year group
- **MathPALS Leader** Led student group supporting first year students taking mathematics courses
- **CreatED 2018** Organised first student-run hackathon in UK with 130 participants and 10 sponsors