Elias F. Fyksen

Email: elias@fyksen.net
LinkedIn: elias-fyksen
GitHub: github.com/eliasffyksen

EDUCATION

University of Manchester — Manchester, UK
BSc Computer Science, 1st year GPA: 86% — 2019–2022
2nd year GPA: 89%

Asker High School — Asker, Norway
Graded average: 87% — 2015–2018

- A* equivalent in further Math and further Physics

EXPERIENCE

Netcraft — Bath, UK
Computer Scientist Intern — Summer 2021

- Netcraft Scamalert Developer
- Bug fixing and feature expansion of Necrafts Scamalert system

Netcraft — Bath, UK
Computer Scientist Intern — Summer 2020

- Netcraft Takedown Service: Core Developer
- Bug fixing and feature expansion of Necrafts automated Takedown System, which aims to take down illegal an malicious websites and apps

Fyxn Computing AS — Oslo, Norway
CEO — Jun 2019 - Present

- My own freelance web development company, contracted work includes:
- Supplied database system for The Norwegian Armed Forces
- Web development for the Ethical Council for the Norwegian Defence Sector
- walkaboutvoices.no: Web application for middle school and high school English lessons employed by schools in Norway, Sweden, Denmark and Finland

Safety Innovation AS — Oslo, Norway
CTO — Sep 2019 - Present

- Development and maintenance of all KinderID systems. kinder-id.com

Norwegian Armed Forces — Oslo, Norway
Web Developer — Jun 2018 - Jun 2019

- Maintaining/Administrating the Website and Intranet of the Norwegian Armed Forces

Gaudio — Vollen, Norway
Part-time IT Consultant — Apr 2015 - Jan 2019

Skills

- **Programming Languages:** C, C++, Assembly, Python, PHP, SQL, Java, JavaScript, Perl, Go, HTML, CSS
- **Technologies:** Linux, LXC, Docker, Node.js, CiscoIOS, MySQL, MongoDB, RethinkDB, ElasticSearch
- **Protocol knowledge:** IPv4, IPv6, TCP, UDP, BGP, MAC, HTTP, HTTPS, SNMP, DNS, DHCP
- **Soft Skills:** Team Managment

Relevant Extracurricular Activities

- Team Leader at Manchester Stinger Motorsports AI   2020 –Current
  Team Leader for the Manchester Stinger Motorsports AI. The team has 30+ participants and competes in the FS-AI competition hosted by IMechE
- Network Crew on Infected LAN Asker, Norway   2017 –2020
  Design an maintenance of the network on one of Norways biggest LAN parties
- Network Crew on The Gathering, Norway   2018
  Administration of the network on Norways biggest LAN party, with 6000+ participants

Projects

See full list of projects on github.com/eliasffyksen

BGP Analysis   2021 - Present
3rd year project UoM   **Language:** Python, Cypher, JavaScript
Ongoing project. Representing global BGP data from public sources in graph database. Analysis of global internet infrastructure in order to attempt to discover the extent of criminal infrastructure. Including a web application for browsing the data

SmplOS   2019
github.com/eliasffyksen/smplos   **Language:** C
Ongoing project to create simple operating system written in C

Smpl32-sim   2020
github.com/eliasffyksen/smpl32-sim   **Language:** C++
A 32 bit RISC ISA and emulator written in C++

MU0-Lang   2019
github.com/eliasffyksen/MU0-Lang   **Language:** C++
A proof of concept programming language and compiler for the MU0 architecture