Kirk Easterson

+47 484 00 835 ✦ kirk.easterson@gmail.com ✦ kirkeasterson.com ✦ github.com/kirkeasterson ✦ linkedin.com/in/kirkeasterson

Education

KTH Royal Institue of Technology   STOCKHOLM, SWEDEN
Masters of Science - Computer Science: Machine Learning Specialization   *Aug 2019 – Dec 2021*

Stony Brook University   NEW YORK, USA
Non-Matriculated Graduate Student   *May 2017 – May 2019*

State University of New York at Fredonia   NEW YORK, USA
Bachelors of Arts – Applied Music   *Aug 2012 – May 2015*

Skills

Languages: Golang, C#, F#, Python, Javascript, Typescript, Java, SQL, Bash

Tools: Git, BigQuery, Elasticsearch, Google Colab, Ansible, React, PostgreSQL, MongoDB, TeamCity, GoReplay, Mailgun, jQuery

Experience

Unacast – *Backend software engineer*   *Mar 2022 – present*
- Build and maintain the data catalog using Golang with PostgreSQL and BigQuery
- Build and maintain the internal and external GRPC APIs using golang, and the python client that is a GRPC wrapper
- Index data to the catalog using Google Colab and Python3

Loop54 – *Full stack developer*   *Mar 2020 – Mar 2022*
- Designed and built large portion of customer portal. Frontend: *Fable* (*F#*) with *Ant Design* library, backend: *C#* with *PostgreSQL* and *MongoDB*
- Built internal tools in *C#* for Product Specialists to process customer product information
- Wrote various bash scripts for git hooks and capturing network traffic

Saab AB – *Masters Thesis*   *May 2021 – Dec 2021*
- Built tool in *Python* to automate testing for open-source software defined networking tool *P4*
- Implements *Microsoft*'s open-source tool *PICT* to generate and run combinatorial test cases
- Implements *Packet Test Framework* (PTF) to run the test cases
- Work continued from Research Assistant position at KTH (*see below*)

KTH – *Research Assistant*   *Mar 2020 – Mar 2021*
- Partnership with KTH and Saab AB to capture network traffic in open-source software defined networking tool *P4*
- Built with *Python* using the Observer design pattern

Maharam – *Applications Engineer Intern*   *Mar 2019 – Aug 2019*
- Wrote over 3,000 lines of Java and BBj to assist with data migration to SQL Server
- Rewrote original code to reduce overnight push time from 12 hours for 10 tables to 8 hours for over 750 tables

The Paramount – *Stage Manager*   *May 2015 – May 2019*
- Stage-managed over 100 acts in a 1,500 seat entertainment venue
- Worked for artists such as The Beach Boys, Fergie, Joe Jonas, Weird Al, and Meatloaf

The Town Pants – *Musician* (*Upright Bass & Piano*)   *May 2014 – May 2017*
- Toured in an internationally established Irish folk band
- Played with musicians such as Zac Brown, Cory Henry, and George Millar

Projects

KALE (*Kirk's Automated Linux Environment*) – *Ansible*   *Dec 2021 – present*
- Automated installation of my linux environment on Ubuntu Server 22.04
- https://github.com/KirkEasterson/kale

.dotfiles   *Dec 2019 – present*
- Various dotfiles for programs I use on a daily basis
- https://github.com/KirkEasterson/.dotfiles

Duckhunt AI – *Java*   *Aug 2019 – Sep 2019*
- Designed an artificial intelligence to play Duckhunt
- Used Hidden Markov Models to predict location and species of duck

Segregated Freelist Memory Manager – *C*   *Nov 2018 – Dec 2018*
- Dynamic memory allocator for the x86-64 architecture
- Emulates C standard library functions `malloc`, `realloc`, and `free`
- Features best-fit placement policy and immediate coalescing on `free` with adjacent free blocks.

SBUScript – *PLY* (*Python*, *Lex*, *Yacc*)   *June 2018 – July 2018*
- Built a complete compiler for Java
- Extensive use of the PLY parser generator