Kirk Easterson

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Education

KTH Royal Institue of Technology
Masters of Science - Computer Science: Machine Learning Specialization

Stony Brook University
Non-Matriculated Graduate Student

State University of New York at Fredonia
Bachelors of Arts - Applied Music

Stockholm, Sweden
Aug 2019 - Dec 2021
May 2019 - Dec 2021
May 2017 - May 2019
New York, USA
Bachelors of Arts - Applied Music

Skills

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

Tools: Git, BigQuery, Elastic Search, 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