Kirk Easterson

kirk.easterson@gmail.com kirkeasterson.com github.com/kirkeasterson Education KTH Royal Institue of Technology STOCKHOLM, SWEDEN Masters of Science - Computer Science Aug 2019 - Jun 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 **MIT Experimental Learning** Massachusetts, USA Certificate Course: Big Data and Social Analytics *May* 2016 – *Aug* 2016 Experience Maharam – Applications Engineer Intern Mar 2019 - Aug 2019 • Wrote Java to assist with data migration from BBj to SQL Server · Rewrote original code to achieve6 times more efficient data transfer **Freelance** – *Programmer* Sep 2018 - Nov 2018 • Reformatted over 4,000 lines of Python data science modules into Cython Implemented contiguous memoryviews to improve efficiency in accessing NumPy arrays **Gentoo Linux** – *Translator* May 2018 – present • Contributed to an open source, volunteer-driven Linux distribution Translated over 50 pages of documentation and handbook into Swedish and Norwegian **Fire Rescue Systems** – *Software Engineer Intern May* 2017 – *August* 2017 • Wrote code and documentation for C++ and Java • Maintained code for emergency-response dispatch software used throughout Suffolk and Nassau county • Gained professional experience with Git **The Paramount** – *Stage Manager* May 2015 - May 2019 • Stage-managed over 100 acts in a 1,500 seat entertainment venue • Worked with artists such as The Beach Boys, Fergie, Joe Jonas, Meatloaf, Weird Al, and Train **The Town Pants** – *Musician (Upright Bass & Piano)* May 2014 - May 2017 • Toured in an internationally established Irish folk band Performed in places such as Dublin, Edinburgh, London, New York City, Hawaii, Quebec, and Vancouver Played with musicians such as Zac Brown, Cory Henry, and George Millar **Projects** Multi-Threaded Transactional Object Store Database – C Nov 2018 - Dec 2018 Use of POSIX threads and multi-threading safety Attained concurrency guarantees with use of semaphores, mutexes, and proper thread execution Handled host-to-many-client connection with low-level socket programming **Vendor** – *Java*, *JDBC*, and *MySQL* Nov 2018 - Dec 2018 • Created a full-stack web app for an online auction house • Fully functioning website similar to eBay where users can buy or sell items **RUDP** – Python September 2018 – October 2018 • Wrote a reliable user datagram protocol implementation • Heavy use of the Python socket library · Features 2-way file sharing and simulated packet loss 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

Skills

Languages: Python, MySQL, Java, Javascript(React), C/C++, Bash, CSS, HTML, Prolog, SML, LTEX, LISP, MIPS **Tools:** Git, Tableau, SQL Server Management Studio, Jupyter, AWS, Pro Tools, Ableton, Photoshop, Blender, VMware **Natural languages:** English (*native speaker*), Swedish (*limited working proficiency*), Norwegian (*limited working proficiency*)