## **Kirk Easterson**

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|---|----------|-------------------------------|-------------|-------------------------------|
| Education   |          |                               |             |                               |
| KTH Royal Institue of Technology  |          |                               |             | Stockholm, Sweden             |
| Masters of Science - Computer Science   |          |                               |             | Aug 2019 – Jun 2022           |
| Stony Brook University  |          |                               |             | New York, USA                 |
| Non-Matriculated Graduate Student   |          |                               |             | May 2017 – May 2019           |
| State University of New York at Fredo   | nia      |                               |             | New York, USA                 |
| Bachelors of Arts – Applied Music   |          |                               |             | Aug 2012 – May 2015           |
| MIT Experimental Learning   |          |                               |             | Massachusetts, USA            |
| Certificate Course: Big Data and Social   | Anal     | ytics                         |             | May 2016 – Aug 2016           |
| Experience  |          |                               |             |                               |
| <b>Maharam</b> – Applications Engineer Intern                                     |          |                               |             | Mar 2019 – Aug 2019           |
| <ul> <li>Wrote Java to assist with data migration</li> </ul>                      | n fror   | n BBj to SQL Server           |             | Ţ                             |
| <ul> <li>Rewrote original code to achieve6 time</li> </ul>                        |          |                               |             |                               |
| Freelance – Programmer  |          |                               |             | Sep 2018 – Nov 2018           |
| <ul> <li>Reformatted over 4,000 lines of Pythor</li> </ul>                        | n data   | science modules into Cythor   | 1           | ,                             |
| <ul> <li>Implemented contiguous memoryview</li> </ul>                             | vs to i  | mprove efficiency in accessin | g NumPy a   | arrays                        |
| Gentoo Linux – Translator   |          | -                             | -           | May 2018 – present            |
| <ul> <li>Contributed to an open source, volunt</li> </ul>                         | eer-dr   | iven Linux distribution       |             | ·                             |
| <ul> <li>Translated over 50 pages of document</li> </ul>                          |          |                               | nd Norwe    | gian                          |
| Fire Rescue Systems – Software Enginee  |          |                               |             | May 2017 – August 2017        |
| <ul> <li>Wrote code and documentation for C-</li> </ul>                           | ++ and   | d Java                        |             | · ·                           |
| <ul> <li>Maintained code for emergency-respo</li> </ul>                           | nse di   | spatch software used through  | nout Suffo  | lk and Nassau county          |
| <ul> <li>Gained professional experience with 0</li> </ul>                         |          |                               |             | ,                             |
| The Paramount – Stage Manager   |          |                               |             | May 2015 – May 2019           |
| • Stage-managed over 100 acts in a 1,500  | ) seat e | entertainment venue           |             |                               |
| <ul> <li>Worked with artists such as The Beach</li> </ul>                         | Boys     | Fergie, Joe Jonas, Meatloaf,  | Weird Al, a | and Train                     |
| The Town Pants – Musician (Upright Ba   | ıss & l  | Piano)                        |             | May 2014 – May 2017           |
| Toured in an internationally established  |          |                               |             |                               |
| <ul> <li>Performed in places such as Dublin, E</li> </ul>                         | dinbu    | rgh, London, New York City,   | Hawaii, Q   | uebec, and Vancouver          |
| Played with musicians such as Zac Bro   | own, C   | Cory Henry, and George Milla  | ır          |                               |
| Projects  |          |                               |             |                               |
| Multi-Threaded Transactional Object   | Store    | Database – C                  |             | Nov 2018 – Dec 2018           |
| <ul> <li>Use of POSIX threads and multi-threa</li> </ul>                          |          |                               |             |                               |
| <ul> <li>Attained concurrency guarantees with</li> </ul>                          |          |                               | proper thr  | ead execution                 |
| Handled host-to-many-client connecti  |          | -                             |             |                               |
| <b>Vendor</b> – Java, JDBC, and MySQL   |          | 1                             |             | Nov 2018 – Dec 2018           |
| • Created a full-stack web app for an on  | line aı  | iction house                  |             | 1400 2010   Dec 2010          |
| <ul> <li>Fully functioning website similar to eE</li> </ul>                       |          |                               | ıs          |                               |
|   | uy ···   | ere users carried or sen nen  |             | 0 1 1 2010 0 1 1 2010         |
| RUDP – Python   | . 1 •    | 1 ( . (                       |             | September 2018 – October 2018 |
| Wrote a reliable user datagram protoc   |          | lementation                   |             |                               |
| Heavy use of the Python socket library  Footnote 2 constitution and disputitions. |          | alast lane                    |             |                               |
| <ul> <li>Features 2-way file sharing and simula</li> </ul>                        | •        | icket ioss                    |             |                               |
| Segregated Freelist Memory Manager  |          |                               |             | Nov 2018 – Dec 2018           |
| <ul> <li>Dynamic memory allocator for the x86</li> </ul>                          |          |                               |             |                               |
| <ul> <li>Emulates C standard library functions</li> </ul>                         |          |                               |             |                               |
| <ul> <li>Features best-fit placement policy and</li> </ul>                        | imme     | diate coalescing on free wit  | h adjacent  | free blocks.                  |
| <b>SBUScript</b> – PLY (Python, Lex, Yacc)  |          |                               |             | June 2018 – July 2018         |
| Built a complete compiler for Java  |          |                               |             | , , , ,                       |
| Extensive use of the PLY parser general   | ator     |                               |             |                               |
|   |          |                               |             |                               |

## Skills

Languages: Python, MySQL, Java, Javascript(React), C/C++, Bash, CSS, HTML, Prolog, SML, Languages: 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)