

# Kirk Easterson

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## Education

### **Stony Brook University**

STONY BROOK, NEW YORK

#### *Graduate Student – Computer Science*

August 2017 – May 2021

Computer Architecture I and II, Principles of Database Design, Data Structures and Algorithms, Software Engineering, Network Design and Administration, Advanced Java, Probability Theory, Discrete Math

### **SUNY Fredonia**

FREDONIA, NEW YORK

#### *Bachelor's Degree in Music - Classical Performance*

August 2012 – May 2015

Visual Basic I and II, Principles of Database Design

### **MIT Experimental Learning**

CAMBRIDGE, MASSACHUSETTS

#### *Certificate Course: Big Data and Social Analytics*

May 2016 – August 2016

Analyze user's mobile phone data with Python, R, Jupyter Notebooks, and AWS to predict location and communication habits

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## Experience

### **Gentoo Linux – Translator**

May 2018 – present

- Translated over 50 pages of documentation into Norwegian and Swedish

### **Fire Rescue Systems – Software Engineer Intern**

May 2017 – August 2017

- Wrote and debugged C++ and Java with use of Visual Studio and Git
- Wrote code documentation for emergency-response dispatch software

### **The Paramount – Stage Manager**

May 2015 – May 2018

- Stage-managed over 500 acts in a 1,500 seat entertainment venue
- Worked with artists such as Fergie, Joe Jonas, Meatloaf, Weird Al, and Train

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## Projects

### **SBUScript – PLY(Python, Lex, Yacc)**

June 2018 – July 2018

- Built a complete compiler for Java (CSE 307: Principles of Programming Languages)
- Reverse engineered Java parse tree for proper grammars
- Designed an attribute grammar for parsing of strongly typed data types

### **TCP Key Value Pair Server – Python**

September 2018 – October 2018

- Engineered a key-value pair server featuring Python socket library (CSE 310: Computer Networks)
- Implements TCP network protocol in communications
- Utilizes proper HTTP server responses

### **Mimir – JavaFX and MySQL**

April 2018 – May 2018

- Created a full stack university records application to maintain student grade and course database
- Monitor students' records using MVC and Factory design patterns (CSE 219: Computer Science II)
- Implements MySQL Workbench for the server and JavaFX for the back and frontend

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## Skills

**Languages:** R, C/C++, Python, MySQL, Bash, HTML, CSS, Javascript, Java, Prolog, SML,  $\text{\LaTeX}$ , LISP, MIPS

**Tools:** Git, Tableau, SPSS, OpenRefine, Visual Studio Code, Android Studio, MySQL Workbench, AWS, Jupyter, Photoshop, Blender, VMware, Pro Tools

**Natural languages:** English (*native speaker*), Norwegian (*limited professional proficiency*), Swedish (*limited professional proficiency*), Danish (*elementary proficiency*) and French (*elementary proficiency*).