

Education

Stony Brook University

STONY BROOK, NY

Graduate Student – Computer Science

August 2017 – May 2020

Data Structures and Algorithms, Software Design, Advanced Java, Probability Theory, System Architecture, Network Design, Database Design, Foundations of Computer Science

SUNY Fredonia

FREDONIA, NY

Bachelor's Degree in Music - Classical Performance

August 2012 – May 2015

Visual Basic I and II, Principles of Database Design

MIT Experimental Learning

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

Projects

Kale – *PLY(Python, Lex, Yacc)*

June 2018

- Built a scripting language based on materials learned in CSE 307: *Principles of Programming Languages*
- Organizes assignment deadlines via the CLI
- Designed an attribute grammar for parsing of strongly typed data types

Mimir – *JavaFX and SQL*

April 2018 – May 2018

- Created a full stack university records application to maintain student information
- Monitor students' grades and course sequence featuring MVC and Factory design patterns
- Implements SQL for the backend and JavaFX for the frontend

Lyder Media Player – *JavaFX*

Nov 2017 – Dec 2017

- Designed an audio player that supports *.mp3*, *.wav*, *.wma*, *.ogg*, and *.flac* audio file formats
- Can create and edit playlists with shuffle and looping playback
- UI composed with *Scene Builder* and *openjfx* based on materials learned in CSE 214: *Computer Science II*

MicroPad – *JavaFX*

Sep 2017

- Constructed a text editor to create and edit *.txt* files
- Contains a *vi* mode with basic *vi* navigation and editing commands
- Analyzing the text allows the user to see the word count, sentence count, and the Flesch Score

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

The Paramount – *Stage Manager*

May 2015 – May 2018

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

Skills

Languages: Java, C, C++, Python, R, SQL, HTML, CSS, Javascript, Prolog, \LaTeX , Bash, LISP, SML, MIPS

Tools: Git, Visual Studio, Android Studio, MySQL, AWS, Jupyter, Photoshop, Blender, VMware, Vim, Emacs, Tableau, Pro Tools

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