Noel Negusse

 $\underline{contact@noelnegusse.com} \bullet \underline{www.negusse.com} \bullet \underline{www.github.com/tunneln} \bullet (469) \ 432-7203$

EDUCATION

The University of Texas at Austin

Bachelor of Science in Computer Science

Bachelor of Science in Mathematics

Skills

Languages

C++/C. Python . Verilog . Java . JavaScript . Bash

Tools/Libraries

OpenGL . three.js . ncurses . JavaCC . nginx . ELK . CMake . Git . GDB

Work Experience

Software Engineer Intern

June 2016 to August 2016

Expected Graduation: May 2017

Vectra Networks, Inc.

Python, C++, CMake, ELK, nginx

- Built/Shipped an end-to-end pipeline to capture network traffic and extract metadata from deployments
- $\bullet \ \ \text{Implemented an ELK stack to visualize network traffic statistics in order to streamline protocol research}$

Server Administration Intern

June 2014 to August 2014

KidsCare Therapy Offices

UN*X, Bash

• Conducted white box penetration tests, optimized server workloads to hardware and ran system migrations

Computer Science Research Intern

January 2013 to May 2013

The University of Texas at Dallas

Java, C#

GPA: 3.0

- Wrote the monitor interface to a wearable sensor in collaboration with EE and CS graduate students
- Developed a dynamic testing utility using Java to vet the sensor's gyroscope and accelerometer

Projects

Foids – Particle System

December 2016

http://noelnegusse.com/foids

JavaScript, three.js

• Programmed an interactive, 3D implementation of Boids using the WebGL and three.js libraries

Ray Tracer

August 2016 to September 2016

https://github.com/tunneln/ray-tracer

C++, OpenGL

• Developed a ray tracer implementing the Whitted-Illumination model, anti-aliasing, shading and more

Pipelined Processor

September 2016 to October 2016

https://github.com/tunneln/pipelined-processor

Verilog

• Implemented a 16-bit RISC pipelined processor with 2-bit branch prediction and instruction caching

Carnot Knowledge Engine

November 2015 to May 2016

https://github.com/tunneln/CarnotKE

Java, JavaCC

- Collaborated with Professor Philip Cannata to develop a Multi Language Interface to Heterogeneous DB
- Reimplemented a semantic DB over Oracle NoSQL and extended the query language for dynamic schemas

Virtual Memory Framework

March 2015 to May 2015

https://github.com/rellermeyer/course_os

C

• Constructed swapping system and page fault handler from the ground up for our made-from-scratch kernel

ASCII Invaders

Feburary 2015 C++, neurses

https://github.com/tunneln/ascii-invaders

• Developed a simple remake of Space Invaders using the neurses library and ASCII character sprites