

NOEL NEGUSSE

contact@noelnegusse.com · www.negusse.com · www.github.com/tunneln · (469) 432-7203

EDUCATION

The University of Texas at Austin

Expected Graduation: May 2017

Bachelor of Science in Computer Science

GPA: 3.0

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

Vectra Networks, Inc.

Python, C++, CMake, ELK, nginx, AWS

- Built/Shipped an end-to-end pipeline to capture network traffic and extract metadata from deployments
- Implemented an ELK stack to visualize network traffic statistics 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 and orchestrated system migrations

Computer Science Research Intern

January 2013 to May 2013

The University of Texas at Dallas

Java, C#

- 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

February 2015

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

C++, ncurses

- Developed a simple remake of Space Invaders using the ncurses library and ASCII character sprites