Drew Neely

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Education

University of Texas at Austin **Anticipated Graduation: May 2021**

B.S. Computer Science Turing Scholars (Honors)
B.S. Computational Biology
GPA of 3.5/4.0

- Relevant Coursework: Advanced Computer Architecture, Compilers, Operating Systems, Artificial Intelligence, Statistics, Bioinformatics

Skills

Programming Languages

- Java, Javascript, C, C++, Verilog, C#, Python, Assembly, Rust, PHP, Swift

Frameworks, Tools, and Services

- AWS, NodeJS, Xamarin, XCode, Android Studio, Computer Vision, Arduino and circuitry

Experience

Teaching Assistant for Operating Systems Class, UT Austin **August 2019 - Present**

- Lectured at a discussion section for 30 students, held office hours, and graded assignments

Intern, E&J Gallo Winery, R&D **Summer 2018**

- Built a Xamarin iOS app, NodeJS server, and Computer Vision Model to identify the brands of wine bottles on a shelf to speed up data collection for sales representatives

Intern, Turner Logic **Summer 2016**

- Worked on a prototype for a laser tag gun to be used in conjunction with an app

Lifeguard, SOCOMA HOA **Summers 2014 - 15**

Programming Projects

Javascript Compiler

- Built a parser generator and Javascript compiler using Javascript
- Designed and currently creating a Node addon that allows performance dependent pieces of a Node Program to be compiled

Linux-like Operating System for an i386 Processor

- Created an OS complete with preemptive multithreading, virtual memory, file system functionality, user mode programs, and secure system calls
- Ported a portion of NodeJS to run inside the operating system

Designed a Pipelined Processor for a custom ISA

- Used Verilog to create, simulate, and test an eight-stage processor for an ISA based on the x86-64 architecture

CodeAide, Code Outsourcing Website (Developed at “Hack the North” in Toronto, Canada)

- PHP and Laravel website that allows developers to outsource parts of their product that they may not know how to implement in order to increase the speed and quality of production