

Noah Harvey

noah.harvey247@gmail.com - 678-896-5165 - github.com/theNerd247

Experience

Software Engineer

Full Time

Awake Security

Mar. 2020 - Sep. 2020

- Invented Conix a declarative turing incomplete markup language written in Nix
- Created the optparse-repline open source Haskell library to aid in refactoring a large codebase and eliminate production bugs as well as stabilize a user interface.
- Designed tutorials for EAQL - a new programming language invented by Awake Security.

Software Engineer

Contractor

Kolla Code

Oct. 2019 - Mar. 2020

- Designed email notification API using NodeJS
- Architected IBM cloud integrated project using TypeScript and Docker
- Wrote declarative secrets management script

Software Engineering Lead Instructor

Full Time

General Assembly

Oct. 2018 - Oct. 2019

- Lead 60 career-changing students in three 12-week immersive courses using JavaScript Python MongoDB and SQL with a 90% job placement rate.
- Designed and implemented Git architecture for managing course curriculum which eliminated work duplication and increased clear team communication.
- Designed prototyped and built course scheduling system using functional programming to decrease course planning time from 1 week to half a day.

Full Stack Software Engineer

Full Time

Delante Group Inc.

May. 2017 - Oct. 2018

- Designed handwriting to text automation process using AWS MTURK to decrease operation costs from approximately 1k per month to approximately \$100 per month.
- Wrote a C# to TypeScript transpiler to increase cross language type-safety between frontend and backend code.
- Increased client facing productivity by ensuring minimal downtime of MongoDB servers.

Teaching Assistant

Part Time

Kennesaw State University Mechatronics Dept.

Aug. 2016 - Dec. 2017

- Developed a web server in Haskell to manage a robot race competition.
- Used embedded C programming to design tools for students.
- Lead and instructed embedded software and robotics lab.

Robotics Engineer

Co-op

Georgia Tech Research Institute

Jan. 2015 - Jul. 2016

- Contributed to the completion of an automated poultry de-boning project designed to increase factory processing speed by 80%.
- Designed graphical tool using C++ to enable research scientists to easily capture and process data relevant to projects.

Mechatronics Engineer

Internship

UNIQ Technologies Inc.

May. 2014 - Jul. 2014

- Designed embedded software for small engine control systems.
- Designed and prototyped digital microcontroller circuits.
- Aided in brainstorming new company products.

Projects

optparse-repline

Haskell

An Haskell library for creating REPLs using optparse-applicative

breeze-check

Haskell Elm Nix

Mobile first check in system using snap and Elm-Lang

aria-racer

Haskell Bash Docker

A robot racing server with a web-based interface using snap.

scheduler

JavaScript

An automated scheduling system for teachers.

Education

B.S. Mechatronics Engineering

Full Time

Kennesaw State University

Aug. 2012 - May. 2017

Publications

Hu, Ai Ping et al. *Motion Control Of Articulated Rigid Bodies Used To Model Deformable Biomaterials* 2016, IEEE International Conference on Advanced Intelligent Mechatronics