Noah Harvey

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Experience

Functional Programmer Intern

Awake Security 2020 - 2020

- Invented Conix - an open source project for creating bug free documentation 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 stablize a user interface.
- Designed tutorials for EAQL - a new programming language invented by Awake Security.

Lead Instructor

General Assembly 2018 - 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 eliminiated 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

Delante Group Inc. 2017 - 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.

Projects

conix *Nix*
A declarative documentation library written in nix.

optparse-repline *Haskell*
An Haskell library for creating REPLs using optparse-applicative

breeze-check *Haskell Elm Nix*
Mobile check in system for the Breeze Church Management System

aria-racer *Haskell Bash Docker*
A robot racing server with a web-based interface

lambda *Haskell*
A tiny lambda calculus interpreter

scheduler *JavaScript*
An automated scheduling system for teachers.

Education

B.S. Mechatronics Engineering

Kennesaw State University 2012 - 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