

# Noah Harvey

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Haskell - Nix - Elm - C - C++ - C# - JavaScript - Java - Git - Bash - Python

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## Experience

### Software Engineer

Full Time

*Awake Security*

Mar. 2020 - Sep. 2020

- Invented Conix a domain specific language for writing smart markdown.
- 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.
- Learned Category-Theory and Type-theory while studying under Gabriel Gonzalez.

### 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 a course scheduling system to decrease course planning time from 1 week to half a day.
- Authored web development curriculum and exercises for junior developers using Express, MongoDB, NodeJS, and React JS.

### 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

Georgia Tech Research Institute

Co-op

Jan. 2015 - Jul. 2016

- Designed and implemented robotics control software for an automated poultry de-boning project designed to increase factory processing speed by 80%.
- Wrote computer vision software to collect statistics for modelling the skeleton of poultry.
- Introduced the Robotic Operating System framework and GitLab to new projects which created a stable.
- Co-Authoring a research paper on modelling the kinematics of non-rigid bodies

## Mechatronics Engineer

UNIQ Technologies Inc.

Internship

May. 2014 - Jul. 2014

- Designed embedded software for a small engine control system.
- Designed, built, and programmed motor controller circuit boards from receipt printers.
- Aided in quality control of auto parts

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## Projects

**optparse-replne**      *Haskell*      **breeze-check**   *Haskell Elm Nix*      **aria-racer**   *Haskell Bash Docker*

An Haskell library for creating REPLs using optparse-applicative

Mobile first check in system using snap and Elm-Lang

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

**scheduler**              *JavaScript*

An automated scheduling system for teachers.

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## Education

### B.S. Mechatronics Engineering

Kennesaw State University

Full Time

Aug. 2012 - May. 2017

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## 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