

# CHARLY RESENDIZ

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## EDUCATION

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**Drexel University**

Bachelor of Science in Computer Science

*June 2018*

Cumulative GPA: 3.29

## TECHNICAL STRENGTHS

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<b>Specialties</b>	Functional Programming Languages and CUDA Architectures (GPU)
<b>Programming Languages</b>	CUDA, C, Python, Haskell, Idris
<b>Systems &amp; Tools</b>	MPICH2, Stack (Haskell)
<b>Operating Systems</b>	Linux (Ubuntu, Fedora)

## EXPERIENCE

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**Drexel University**

*Research Volunteer*

December 2017 - Present

- Updated Haskell effects library for GHC 8.2.2
- Proposed and prototyped additions to Idris effects library

**Engility**

*Software Developer Intern*

September 2016 - March 2017

- Prototyped CUDA code for optical depth calculations
- Improved lookup table performance, by 17%, with CUDA code translation, calculating optical depth
- Updated and tested Cloud Transfer software for High Performance Computing (HPC) architectures
- Parsed and translated an existing internal file format to JSON

**PJM Interconnection LLC**

*Java Developer Intern*

September 2015 - March 2016

- Updated web forms, developed with the Spring framework
- Improved security of new additions in PJM's archive websites (sessions and roles)

## PROJECT

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**Hindley-Milner Interpreter**

- Implemented type system for simply typed lambda calculus (STLC)
- Introduced type inference and let binding to STLC (STLC to Hindley Milner)

## INVOLVEMENT

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**Drexel IEEE**

*Competition Chair*

September 2013 - September 2015

*Drexel University*

- Co-developed and coordinated registration for IEEE members and participants at university hackathon (DragonHacks)