Ryan Christopher DeYong

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I studied Computer Engineering at the University of Cincinnati. Throughout my work experience so far, I've been able to understand hardware and software requirements, and in addition collaborate with a team to achieve a viable end product. I'm passionate about electronics design work, low level software development, and algorithm design/optimization.

Experience

FIS

2018 - 2020

Software Engineering COOP

- Developed software with a team using the Agile software development model
- Created and demonstrated a prototype of a new technology to use in merchant processing
- Mentored other COOP students to help them better understand C# and JavaScript
- Worked directly with project stakeholders on deciding the direction of various projects

C#.NET | ASP.NET | SQL | IBM DB2 | Bootstrap | JavaScript

Intel

2021 - Present

Product Development Engineer

- Helped design and program testing automation software
- Worked on tokenizer and parser for internal programming language
- Interpreted analog oscilloscope readings to determine test correctness
- Significantly optimized algorithms resulting in up to a 15x performance boost in some cases
- Hacked Python internals to create IPC compatibility layer for old software

C#.NET | Compiler Theory | Python | LZ77 | IPC

Skills

Radio/RF work

4+ years

Frequent use

Executive of UC Amateur Radio Club (N8XZZ). RF/antenna circuit design for UC + Regal

Circuit Design + CAD

4+ years

Some use

Used CAD tools for building projects; circuit design for Regal, UCARC, personal projects, VHDL

GAN + CNN

2+ years

Some use

Custom PyTorch to create Generative Adversarial + Convolutional Networks

Reverse Engineering

4+ years

Frequent use

Worked with Ghidra, GDB, ollydbg. Reverse engineered compiled internal Intel software to fix issues

Linux

5+ years

Everyday use

System administration, web server hosting, tool familiarity (gparted, cat, ls, rm ...), FIFO, device files

Compiler Theory/NLP

2+ years

Frequent use

Developed internal libraries and LL(1) parser for FIS; LALR(1) parser for Intel to fix parsing issues

Education

University of Cincinnati

April 2021

Bachelors of Science in Computer Engineering

3.4 GPA

Westshore Career Technical

2014 - 2016

Networking/Cisco Training Program

4.0 GPA

Location: Hillsboro, OR, USA
Willing to relocate