

Ryan Christopher DeYong



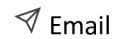
<https://ryanccdeyong.us>



<https://github.com/PerthGoat>



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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	Intel	2021 - Present
Software Engineering COOP		Product Development Engineer	
<ul style="list-style-type: none">Developed software with a team using the Agile software development modelCreated and demonstrated a prototype of a new technology to use in merchant processingMentored other COOP students to help them better understand C# and JavaScriptWorked directly with project stakeholders on deciding the direction of various projects		<ul style="list-style-type: none">Helped design and program testing automation softwareWorked on tokenizer and parser for internal programming languageInterpreted analog oscilloscope readings to determine test correctnessSignificantly optimized algorithms resulting in up to a 15x performance boost in some casesHacked Python internals to create IPC compatibility layer for old software	
C#.NET ASP.NET SQL IBM DB2 Bootstrap JavaScript			

Skills

C++ **Compiler Theory** **Python** **LZ77** **IPC**

Radio/RF work	4+ years	Circuit Design + CAD	4+ years	GAN + CNN	2+ years
Frequent use		Some use		Some use	
Executive of UC Amateur Radio Club (N8XZZ). RF/antenna circuit design for UC + Regal		Circuit design for Regal w/ I ² C, SPI; Personal electronics projects; VHDL		Custom PyTorch to create Generative Adversarial + Convolutional Networks	
Reverse Engineering	4+ years	Linux	5+ years	Compiler Theory/NLP	2+ years
Frequent use		Everyday use		Frequent use	
Worked with Ghidra, GDB, ollydbg. Reverse engineered compiled internal Intel software to fix issues		System administration, web server hosting, tool familiarity (gparted, cat, ls, rm ...), FIFO, device files		Developed internal libraries and LL(1) parser for FIS; LALR(1) parser for Intel to fix parsing issues	

Education

University of Cincinnati	April 2021	Westshore Career Technical	2014 - 2016
Bachelors of Science in Computer Engineering		Networking/Cisco Training Program	
3.4 GPA		4.0 GPA	

Location: Hillsboro, OR, USA
Willing to relocate