

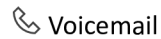
# Ryan Christopher DeYong



<https://ryancdeyong.us>



<https://github.com/PerthGoat>



+14408478142



[administrator@ryancdeyong.us](mailto:administrator@ryancdeyong.us)

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
<b>Software Engineering COOP</b>		<b>Product Development Engineer</b>	
<ul style="list-style-type: none"><li>Developed software with a team using the Agile software development model</li><li>Created and demonstrated a prototype of a new technology to use in merchant processing</li><li>Mentored other COOP students to help them better understand C# and JavaScript</li><li>Worked directly with project stakeholders on deciding the direction of various projects</li></ul>		<ul style="list-style-type: none"><li>Helped design and program testing automation software</li><li>Worked on tokenizer and parser for internal programming language</li><li>Interpreted analog oscilloscope readings to determine test correctness</li><li>Significantly optimized algorithms resulting in up to a 15x performance boost in some cases</li><li>Hacked Python internals to create IPC compatibility layer for old software</li></ul>	
C#.NET ASP.NET SQL IBM DB2 Bootstrap JavaScript			

## Skills

C#.NET Compiler Theory Python LZ77 IPC

Radio/RF work	4+ years	Circuit Design + CAD	4+ years	GAN + CNN	2+ years
<b>Frequent use</b> Executive of UC Amateur Radio Club (N8XZZ). RF/antenna circuit design for UC + Regal		<b>Some use</b> Used CAD tools for building projects; circuit design for Regal, UCARC, personal projects, VHDL		<b>Some use</b> Custom PyTorch to create Generative Adversarial + Convolutional Networks	
Reverse Engineering	4+ years	Linux	5+ years	Compiler Theory/NLP	2+ years
<b>Frequent use</b> Worked with Ghidra, GDB, ollydbg. Reverse engineered compiled internal Intel software to fix issues		<b>Everyday use</b> System administration, web server hosting, tool familiarity (gparted, cat, ls, rm ...), FIFO, device files		<b>Frequent use</b> 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
<b>Bachelors of Science in Computer Engineering</b> 3.4 GPA		<b>Networking/Cisco Training Program</b> 4.0 GPA	

Location: Hillsboro, OR, USA  
Willing to relocate