

# Stuart Hunt

<https://stuarthunt.dev>

me@stuarthunt.dev

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## OBJECTIVE

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I am seeking a position that will fuel my passion for innovation, allow me to dedicate myself to the development of better technology, and make effective use of my diverse background in software.

## EDUCATION

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- **MS - North Carolina State University** Raleigh, NC  
*Master of Computer Science; GPA: 4.00* Expected November 2020
- **BS - North Carolina State University** Raleigh, NC  
*Bachelor of Science, Computer Science and Engineering, Minor in Physics; GPA: 4.00 – Valedictorian* December 2019

## EXPERIENCE

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- **Qualcomm Technologies, Inc.** San Diego, CA  
*GPU Compiler Intern* Summer of 2020
  - **DirectX:** Built a real time ray tracing demo using DirectX 12, including indirect lighting, shadows, and reflections
  - **Performance:** Conducted experiments to analyze the performance characteristics of DirectX Ray Tracing
- **SAS Institute Inc.** Cary, NC  
*Cognitive Computing Intern* Summers of 2017 and 2019
  - **Social Media Prediction:** Built text+image deep learning models that predict the number of likes a potential social media post will receive with super-human accuracy
  - **Social Data Analysis:** Implemented statistical analysis tools for processing bulk visual and textual social media
  - **Sentiment Classifier:** Trained a multi-category sentiment classifier with BERT from Twitter emoji usage
  - **Quantum Computing:** Studied quantum computing and led weekly textbook discussion groups
  - **Deep Learning Calibration:** Developed a method for calibrating model probabilities to be statistically accurate*Year Round Cognitive Computing Intern* May 2016 - January 2017
  - **Patent Lead Inventor:** Patented a deep learning model for classifying and locating overlapping patterns present in one-dimensional data for the purposes of generating natural language descriptions; Application #20180211153*Platform Deployment Intern* Summers of 2014, 2015
  - **BOSH Extension:** Built a Go BOSH extension that allows deploying anywhere, instead of just to the cloud
  - **Distributed Log Analysis:** Implemented an AWS log collection/analysis tool, with a web GUI for management
- **International Business Machines Corp. (IBM)** Raleigh, NC  
*Software Intern* Summer of 2018
  - **Quantum Language:** Prototyped a quantum language parser that allowed for the use of Bra-Ket notation
  - **Quantum Information:** Took an online MITx Quantum Information Science II course
  - **Data Dashboard:** Led an intern team to develop a business data analysis/visualization app for live data insights

## PROJECTS

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- **Amalgom:** Developed an efficient voxel game engine for the web and native using WebGPU
- **QALC (Quantum Calculator):** A Bra-Ket notation based language compiler built with MLIR and LLVM
- **Distributed Ledger:** Contributed to and applied a DAG distributed ledger for peer to peer video game networking
- **Reinforcement Learning:** Trained an AlphaGO based A.I. to play a strategic board game called Pentago
- **Beer Money:** Co-founded an LLC and launched an odd jobs marketplace app & website for students built with Elixir

## SKILLS

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- **Languages:** Rust – Elixir – Go – Python – Ruby – Typescript – Javascript – Java – C – C# – C++ – HTML/CSS

## HONORS

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- Graduated Valedictorian & Summa Cum Laude – Computer Science Honors – University Honors Program – Tau Beta Pi Honors Society – Phi Kappa Phi Honors Society – Accelerated Bachelor/Master Program – Dean's List every semester – Albright Entrepreneurs Village – Charles D. & Patricia D. Lamb Scholarship – Duke Energy Scholarship