Stuart Hunt

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EDUCATION

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

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

Backyard Ventures LLC — Raleigh, NC
Co-founder and Developer — *January 2017 – March 2018*
- **App Development**: Launched BeerMoney: An odd jobs marketplace for students, by students. Developed the web app and backend server with distributed & scalable infrastructure

SKILLS

- **Languages**: : Rust – Elixir – Go – Python – Ruby – Typescript – Javascript – Java – C – C# – C++ – HTML/CSS
- **Misc Technology Experience**: : AWS – Docker – Tensorflow/PyTorch/Caffe/Keras – WebGPU – DirectX – OpenGL/WebGL – Phoenix (Elixir) – Rocket (Rust) – React & React Native – OpenCL – Sinatra (Ruby) – BOSH – Blockchain/dag – Unix – DenseNet – BERT – ELMO – YOLO

HONORS

- 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