Stuart Hunt

https://stuarthunt.dev

OBJECTIVE

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

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

- o 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

- o 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
- o Social Data Analysis: Implemented data analysis tools for processing bulk visual and textual social media
- o 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 Summers of 2014, 2015

Platform Deployment Intern

- BOSH Extension: Built a Go BOSH extension that allows deploying anywhere, instead of just to the cloud
- o 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
- o Data Dashboard: Led an intern team to build a business data analysis/visualization web app for data insights

Projects

- Amalgom: Developed an efficient voxel game engine for the web and native using Rust and WebGPU
- QALC (Quantum Calculator): A Bra-Ket notation based language compiler built with MLIR and LLVM in C++
- Distributed Ledger: Contributed to and applied a Rust distributed ledger for peer to peer video game networking
- Reinforcement Learning: Trained an AlphaGO based AI to play a strategic board game called Pentago with Python
- GPU Iter: Built a Rust GPU compute library that focussed on usability and efficiency
- Beer Money: Co-founded an LLC and launched an odd jobs marketplace app & website for students built with Elixir

SKILLS

- Languages: Rust Elixir Go Python Ruby Typescript/Javascript Java C C# C++ HTML/CSS
- General Experience: Git, Docker, Agile Processes, Compilers, Deep Learning, Graphics, Quantum Computing

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