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Summary_

Currently a Software Engineer at Google with a strong passion for vim, Linux, and artificial intelligence. Interested in applying bleeding edge research in machine learning to practical real world problems.

Work Experience

Google Mountain View, CA

SOFTWARE ENGINEER

Jan. 2016 - PRESENT

- · Developed and utilized machine learning models at scale to improve the data quality of Google Maps.
- Desgined and implemented automated deep learning pipelines to extract real-world information from disparate data sources (StreetView, satellite imagery, Android locaiton data) to update basemap data.
- Leveraged modern big data and machine learning technologies including Google Cloud Dataflow, MapReduce, Tensorflow, containers, and many other Google-internal technologies (Borg, Colossus, etc).

Georgia Tech College of Computing

Atlanta, GA

Undergraduate Researcher

Jan. 2014 - Aug. 2015

- Researching program analysis with Professor Bill Harris
- · Tested applications of using Craig interpolation and unwinding trees in concurrency and complexity analyses

Georgia Tech School of Electrical and Computer Engineering

Atlanta, GA

LEAD TEACHING ASSISTANT

Jan. 2014 - Dec. 2015

- Teaching ECE 2031: Digital Design Lab
- Taught FPGA programming, VHDL, computer architecture design, assembly, and rapid prototyping techniques

Georgia Tech Research Institute Signature Technologies Laboratory

Atlanta, GA

RESEARCH INTERN

Jun. 2012 - Aug. 2012

- Designed and implemented a robot that autonomously searched for power sources
- Implemented an exploration algorithm that utilized sensor input from a 9 axis IMU and the Android camera
- · Designed and fabricated parts such as sensor housings and grippers with Autodesk Inventor and 3D printers

Education

Georgia Institute of Technology

Atlanta, GA

B.S. IN COMPUTER SCIENCE

Aug. 2012 - Aug. 2016

Open Source Work _____

Hourai Teahouse

TECHNICAL LEAD & FOUNDER

Jun. 2010 - PRESENT

- Lead and managed a hobbyist game development group of developers from around the world
- Created open source video games and video game development kits, mostly for the Unity3D engine
- Organized a multidiscipline team of 3D modelers, animators, musicians, software engineers, etc.

DanmakU

CREATOR & MAINTAINER

Aug 2015 - PRESENT

- Free and open source middleware for creating high performance game simulation of large quantities of similar objects, explicitly optimized for bullet hell video games
- Built on the Unity3D engine and optimized for desktop, mobile, and console based platforms
- · Utilized multithreaded data-oriented programming to maximize performance by reducing cache misses and maximizing CPU utilization

APRIL 9, 2018 JAMES LIU · RÉSUMÉ 1