

Kevin Palani

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Education

University of Illinois Urbana Champaign

Exp. May 2022

Bachelor of Science in Computer Engineering

Sophomore

Related Coursework:

Computer Systems Engineering/Operating Systems [ECE 391] (IP) — Data Structures [CS 225] (IP) — Intro to Robotics [ECE 470] — Digital Systems/FPGA design [ECE 385]

Technical Skills

Programming Languages — Java, C/C++, Python, SystemVerilog, php, Javascript, NodeJS

Tools/Frameworks — AWS, Linux, docker, SQL, git, vim, Quartus, L^AT_EX, Laravel, Microsoft Office

Work Experience

Quantum Corp

May 2019 - Present

Software Engineering Intern

Working on Quantum Managed Services, a set of services which allows Quantum support to monitor and repair on-premise appliances remotely. Also created many automated cost analysis tools.

UIUC ECE 385 Staff

January 2020 - Present

Undergrad Assistant

Helping to lead two lab sections where I assist the teachers and answer student questions. Also leading office hour sections where I help students with their projects.

Nebbiolo Technologies

June - August 2018

Software Engineering Intern

Extended the data pipeline to allow for distributed analysis of the data, and upgraded the data visualizer to allow viewing from the cloud

Projects

3D Renderer in SystemVerilog on an FPGA

November - December 2019

Designed and developed a GPU on a CycloneIV FPGA capable of arbitrary textured 3D rendering, and used it within an Avalon SOC along with the Intel NIOS II processor to build a sample of the game Minecraft.

Ocarina of Time Randomizer

August 2018 - Present

Contributing to an Open Source project 'Ocarina of Time Randomizer', a rom hack played by thousands. My work consists of researching the functionality of the base game, then writing code injects my assembly code into the base game to add new features and options for players to enjoy.

IOT SmartHub

August 2018 - December 2018

Created a device built around an ESP32 which could gather data from sensors and turn on and off connected devices based on user input thresholds. Live sensor data was visualized on a web portal using Grafana

FRC FIRST Robotics

August 2014 - May 2018

Led a team of students as Programming Lead to program an FRC robot, which qualified for the world championships. Worked on PID, computer vision, distributed computing, and motion profiling.