


Nipuna Weerapperuma

✉ nipunaw@pm.me · U.S. Citizen · Open to remote roles

 [linkedin.com/in/nipuna-w](https://www.linkedin.com/in/nipuna-w)

 [nipunaw.github.io](https://github.com/nipunaw)

EDUCATION

University of Florida

BS Computer Engineering, BA Business Administration, MSEE/CE coursework
Presidential Platinum Scholar, National Merit Scholar, Computer E Awardee

August 2018 - May 2022

GPA: 3.98

SKILLS & INTERESTS

Skills: SWE (Python, C++, Java, JS), FPGA (SystemVerilog, VHDL, Perl, Quartus, Vivado), Embedded (C, Assembly)
Interests: Audiophile hardware, Console modding, General tinkering & tuning, Gaming, Anime

EXPERIENCE

Intel

Product Development Engineer

July 2022 - Present

{Python, Perl, Verilog}

- Lead and own entire validation process of routing fabric on upcoming Agilex FPGA device
- Drive development on (11) timing and (5) power RTL/software designs to ensure optimal performance characteristics
- Build and augment tools to graph and parse design files, enabling efficient pattern generation and data analysis
- Mentor team members and spearhead documentation on routing block; over 40 hours in knowledge transfer and support

Spectrum

Enterprise Operations Intern

June 2020 - August 2020

{Python}

- Produced tool to automate scraping and verification of network device configuration parameters
- Revamped team webpage to display new member structure, contacts, and service acceptance procedures
- Researched and presented (12) discoveries related to optimizing deployment of customer-premises equipment
- Educated team members on latest Salesforce service acceptance procedures (over 5 hours in 1-on-1 syncs)

Vision

Lead Web Solutions Developer

October 2016 - February 2017

{JavaScript, PHP}

- Developed e-commerce application for a cabinet-manufacturing company embracing automation
- Designed frontend interface so customers can specify custom cabinet characteristics (e.g. hinge, glide, finish)
- Implemented equation to uniquely calculate, display, and relay cabinet prices
- Pair programmed backend to maintain account tokens and deploy CSV files (upon completed purchases) to a remote, server-enabled milling machine

PROJECTS

ClariFi - Senior Capstone (github.com/nipunaw/ClariFi)

FPGA and software integration that boosts real-time microphone clarity and fidelity

{Electron, React, VHDL}

Kanzen Analytics (github.com/nipunaw/Kanzen-Analytics)

Data-driven web dashboard that presents and predicts search engine analytics for anime

{Django, PostgreSQL, Dash}

Lotus (github.com/nipunaw/Lotus)

User application that translates the benefits of typing notes to writing notes via modules

{PyQT5, PyTesseract, OpenCV}

Mint Merch (nipunaw.github.io/mintmerch)

District-winning (1st place) website submission for the E-Business FBLA 2017 prompt

{JavaScript}

Exoskeleton

Project Lead The Way (PLTW) capstone project to reduce back injury incidence in glass and glazing work

{AutoDesk Inventor}