Nipuna Weerapperuma

nipunaw@pm.me · U.S. Citizen · Open to remote roles
linkedin.com/in/nipuna-w
nipunaw.github.io

Education

University of Florida **August 2018 - May 2022**
BS Computer Engineering, BA Business Administration, MSEE/CE coursework GPA: 3.98

- Honors: Presidential Platinum Scholar, National Merit Scholar, Computer E Awardee
- Clubs: Freshman Leadership Engineering Group (FLEG), Gator Badminton, Culinary Arts Student Union (CASU)
- Courses: iOS Apps (Stanford), Digital Design + Logic, Reconfigurable Computing 1 + 2, Data Structures, PLC, OS

Skills & Interests

Languages: Python, Swift, C++, Java, MATLAB, JS, SystemVerilog, VHDL, Perl, C, Assembly
Tools: Git, Perforce, JIRA, Quartus, ModelSim, Vivado, WaveForms, LTSpice, Atmel Studio, MPLAB
Interests: AR/VR, UI/UX, Audiophile hardware, PC & Console modding, Entrepreneurship, Gaming, Anime

Experience

Intel **July 2022 - Present**
FPGA Software Engineer {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 **June 2020 - August 2020**
Software Engineer Intern {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 **October 2016 - February 2017**
Software Engineer {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

Swift iOS Projects (https://github.com/nipunaw/Swift) {Swift, RealityKit}
Series of projects for Stanford's CS193p course. Currently, developing AR app on Vision Pro SDK

ClariFi - Senior Capstone (github.com/nipunaw/ClariFi) {Electron, React, VHDL}
FPGA and software integration that boosts real-time microphone clarity and fidelity

Kanzen Analytics (github.com/nipunaw/Kanzen-Analytics) {Django, PostgreSQL, Dash}
Data-driven web dashboard that presents and predicts search engine analytics for anime

Lotus (github.com/nipunaw/Lotus) {PyQT5, PyTesseract, OpenCV}
User application that translates the benefits of typing notes to writing notes via modules