Nipuna Weerapperuma

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Education

University of Florida **August 2018 - May 2022**
BS Computer Engineering, BA Business Administration, MSEE/CE coursework GPA: 3.97
Presidential Platinum Scholar, National Merit Scholar, Computer E Awardee

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 **July 2022 - Present**
Product Development Engineer {Python, Perl, Verilog}

- Own routing fabric validation on upcoming Agilex FPGA device for the Power, Performance, Yield (PPY) team
- Lead development on (11) timing and (5) power RTL designs targeting device wire types and IP blocks
- Enhance and develop internal graphing and parsing software tools to facilitate design generation
- Mentor team members and craft documentation on routing pattern generation (> 20 hours)

Spectrum **June 2020 - August 2020**
Enterprise Operations Intern {Python}

- Automated device config verification for the Managed Voice Trunking (MVT) team
- Enriched the MVT CHALK page to display new team structure, contacts, and service acceptance procedures
- Presented (12) discoveries for Customer-premises equipment (CPE) Deployment Optimization JIRA task
- Supervised team members on Salesforce service acceptance protocol via 1-on-1 meetings (> 5 hours)

Vision **October 2016 - February 2017**
Lead Web Solutions Developer {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) {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

Mint Merch (nipunaw.github.io/mintmerch) {JavaScript}
District-winning (1st place) website submission for the E-Business FBLA 2017 prompt

Exoskeleton {AutoDesk Inventor}
Project Lead The Way (PLTW) capstone project to reduce back injury incidence in glass and glazing work