

EDUCATION

University of Florida

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

Aug 2018 - May 2022

GPA: 3.97

SKILLS & EXPOSURE

Relevant Coursework: Data Structures (Algo.), Operating Systems, Computer Organization, Discrete Structures
Relevant Languages: Python, C++, C, Java, SystemVerilog, VHDL, Assembly, Perl, JS
Other Proficiencies: Git, JIRA, Vivado, Quartus, ModelSim, MatLab, LTSpice, WaveForms, Salesforce

EXPERIENCE

Intel

Product Development Engineer

July 2022 - Present

{Python, Perl, Verilog}

- Own routing IP block validation for the Falcon Park 8 (FP8) FPGA device
- Lead development on (8) timing and (10) power patterns to satisfy project specifications
- Enhanced DRG and FF Mapping software (> 300 lines) to improve current and future pattern generation
- Mentored team members and crafted documentation on routing pattern generation (> 20 hours)

Spectrum

Enterprise Operations Intern

June 2020 - August 2020

{Python}

- Automated device configuration for the Managed Voice Trunking (MVT) business unit
- 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

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 enter 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 <https://github.com/nipunaw/ClariFi>

{Electron, React, VHDL}

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

Kanzen Analytics <https://github.com/nipunaw/Kanzen-Analytics>

{Django, PostgreSQL, Dash}

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

Lotus <https://github.com/nipunaw/Lotus>

{PyQT5, PyTesseract, OpenCV}

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

Mint Merch <https://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