

NICHOLAS PITTI

WEB DEVELOPER

Computer Systems Engineer from The Technological University of Panama.

CONTACT INFO

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EXPERIENCE

NETWORK TECHNICIAN, Subject to NDA

Feb 2024 - Present

Documented network changes to ensure accurate records and facilitate future maintenance tasks. Monitored network performance to identify and resolve potential issues proactively.

INDEPENDENT PROJECTS <https://nicholaspitti.github.io/nicholas-pitti/>

NEXT JS PORTFOLIO WEBSITE

Created original code base from scratch with HTML, CSS, Bootstrap and JavaScript. Refactored code with NextJS to utilize TypeScript React components. Deployed static pages to be hosted on GitHub Pages with Github Actions.

FULL STACK GAME DATABASE MANAGER

Configured MySQL database connections and queries. Developed TypeScript Vue interface for viewing database tables. Utilized ExpressJS for server routing. Implemented Model-View-Controllers model for handling database operations.

SPOTIFY API DASHBOARD

Created custom functions to assist in playlist organization, track search, queue creation and queue storage. Developed TypeScript Vue.js components for displaying and playing tracks. Implemented API authorization logic and Pinia state management for essential store variables such as API "client ID" and "access token".

AUTOMATED VIDEO SUMMARIZER

Designed a UiPath / VB.Net workflow to bulk download videos & summarize text transcription using ChatGPT. Implemented a WhisperAI Python script for text transcription and file modification.

REACT BOOTSTRAP WEBCLONE

Constructed a responsive layout using modified react-bootstrap components to visually imitate eCommerce website (coolshirtz.com).

GROUP PROJECTS

- Configured NextJS internationalization for multi-language support. Created script to automated email reminders for expired memberships with AWS. <https://www.doiohaim.com/>
- Implemented Facebook Sign-In API with Firebase and OAuth.

SKILLS

- HTML/CSS
- JavaScript/TypeScript
- Bootstrap
- React
- Vue
- Python
- Linux
- Git
- CI/CD principles
- Responsive web design
- Problem-solving and debugging
- English (Native Speaker)
- Spanish (Native Speaker)
- Drawing

EDUCATION

BACHELOR OF ENGINEERING - BENG, COMPUTER SYSTEMS ENGINEERING, Technological University of Panama

2016 – 2023

Completion of projects using a diverse set of tools and programming languages including C++, C#, Java, Python, Linux, SQL, Arduino, Raspberry Pi, Blender, Unity, Krita, AutoCAD. Acquiring the ability to pick up new tools quickly; then methodically design and create cohesive projects. CSE is oriented towards the analysis, design, testing, integration and evaluation of hardware and software systems.

ACADEMIC PROJECTS

FACIAL RECOGNITION MAGNETIC DOOR LOCK

Developed Python & Arduino scripts to connect micro-controllers with Web Sockets. Developed facial recognition logic to open a magnetic lock. Implemented Arduino library for alerting the user through phone messaging app. Configured python environment for project using Linux terminal.

ENDIAN FIREWALL INSTALLATION

Configure virtual box machine with Kali Linux. Establish firewall rules, IPS over LAN and WAN, as well as web filtering, antispam and antispysware. Configure the TCP/UDP port rules. Installation of Comodo Firewall host-based intrusion prevention system (HIPS).

SIGN LANGUAGE LEARNING APP PROTOTYPE

Train a TensorFlow convolutional neural network model with photos taken of asl alphabet. Develop an OpenCV Python script to utilize webcam for detecting signs. Create the user interface using Python QT designer to navigate through the app prototype.

CERTIFICATIONS

RESPONSIVE WEB DESIGN freeCodeCamp

2019

HTML5, CSS3, Responsive Design, Accessibility, Flexbox and CSS Grid.

CISCO CERTIFIED NETWORK ASSOCIATE (CCNA), Cisco Systems

2023

Covers a wide range of theoretical and practical skills, such as installation, configuration, operation, and troubleshooting medium-sized networks.

UIPATH CERTIFIED RPA ASSOCIATE, UiPath Academy

2023

Covers the abilities to independently design and develop simple RPA solutions and be a productive member of an automation team.