Jean Pierre Barnett

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Software Developer | Electronics Yield Engineer

EXECUTIVE PROFILE:

I am an experienced Python programmer with more than 6 years of experience in electronic technology, specializing in testing microprocessors, electronic board repair, bios and firmware development. I have expertise in Python, C++, Visual Studios, R, etc., as well as skills in heat press repair, network connection, Windows and Linux operating systems, various types of printers, single-phase and three-phase motors, all based on a process risk management framework. I have extensive knowledge in preventive and corrective maintenance of different equipment, project supervision, and more. I thrive on new challenges and acquiring new knowledge.

- Led a team of 62 people with 52 operations in charge (engineers and operators). (Intel Corporation)
- Machine learning alarm analyzer and images analyzer with Keras, tensor flow, sci-kit-learn, regression linear, tree desition Dashboard with Power BI and SQL extraction. (Intel Corporation)
- +16 automated human operations +720 hours for the year with Python and Selenium Kubernetes openCV. (Intel Corporation)
- +400 Test cases were made and 45 test plans were made for 6 different products' performance to debug hardware and software. (UST Global)

LANGUAGES

English
- Reading Comprehension B1
- Listening Comprehension B1
- Language Knowledge B2

Spanish
- Native

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https://jompy31.github.io/

https://github.com/jompy31

https://www.linkedin.com/in/jean-pierre-barnett-caruzo-452b9a1b1/

EXPERIENCE

January 2023 - Present: Web Developer Freelancer
- Developing web applications using Python, Django, and React.js.
- Designing interactive yield dashboards using SQL and MongoDB databases.
- Performing data analysis using Python for data analysis, Power BI, and SharePoint.
- Managing tasks and projects using SCRUM methodology.
- Software is developed to optimize tasks with python programs with artificial intelligence and computer vision.
- Create web and mobile applications for clients according to need:
  - IFRS17 accounting actuarial web application based on NIF17 with online mathematical calculations and statistical capabilities for ease of analysis.
  - Business apps, user types, calendars, sales features.
  - Consulting for companies to analyze what is needed to automate operations and thus develop applications that perform statistical and mathematical calculations to obtain in real time the OEE of operations as well as equipment stoppages, and uses mathematical algorithms to take decisions or raise alarms according to values established by the company. As well as being able to view the dashboard online and modify them online with a graphical interface similar to Power BI.
  - Static applications, with SEO properties and marketing for clients

January 2022 – January 2023: Electronics Yield Engineer at Intel Corporation
- Analyzed the percentage of factory losses and conducted investigations to discover the causes of failures.
- Led a team of 62 people, including 52 operations engineers and operators.
- Developed machine learning algorithms for alarm analysis and image analysis using Python, Keras, TensorFlow, and scikit-learn.
- Created a dashboard with Power BI for data visualization and utilized SQL for data extraction.
- Automated human operations using Python, Selenium, and Kubernetes.
- Conducted hardware and software testing, including the creation of test cases and test plans.

August 2020 – December 2021: Electronics Technician at UST Global (Intel)
- Migrated 400+ test cases to HSD-ES, improving testing efficiency.
- Collaborated with teams to triage and root cause issues and bugs.
- Prepared systems by assembling hardware, flashing firmware, installing OS, and connecting debuggers.
- Worked closely with customers to achieve deliverables.
- Published daily and weekly status reports.
- Wrote defect reports for detected issues.
- Utilized debug tools like WinDbg for troubleshooting.

EDUCATION

- 2012-2014Diploma in Electronic Engineering
- National Technical University Finished
- 2021 Course enrolled Bachelor of Electronic Engineering
- National Technical University Cursing 34/62
- 2021 Course enrolled Bachelor in Administration
- Hispanoamerica University Cursing 18/60
- 2021 Course enrolled Computer Science and Programming Using Python.
- Massachusetts Institute of Technology Finished with not Certification
- 2021 Course enrolled Usying Python for Research
- Harvard Finished with not Certification
- 2021 Course enrolled Artificial Intelligence with Python
- Harvard Finished with not Certification
- 2022 Course enrolled Web Programming with Python and JavaScript
- Harvard Finished with not Certification
- 2022 Course enrolled Machine learning
- Harvard Finished with not Certification
- 2021 Course enrolled Python for Research
- Harvard Finished with not Certification
- 2022 Course enrolled Mobile app Development by React Native
- Harvard Course enrolled 6/ 18 months
- 2022 Machine Learning
- Stanford University Cursing 6/ 18 months
- 2022 Object oriented programming in java
- National Autonomous University of Mexico Course enrolled 6/ 18 months

INTEL COMPLEMENTARY TRAINING

- Autonomous Mobile Robot AMR
- Connect and Learn Series Python for Beginners
- Data Science Basics for Engineers
- Die Prep Process Engineering Metrology
- Electrical Safety for Senior Managers
- Electrostatic Discharge Awareness Training
- PreProduction Hardware Management Overview
- Process Flow Overview
- Security for Managers
- Process FMWEA Failure Mode and Effects
- Defect free manufacturing
- Tracer Business
- Integrated CCB Page
- Intel Meeting practices
- Objectives and key results
- Privacy Essentials
- Recycling

TECHNICAL SKILLS:

Programming Languages:

- Python, Java, C#, R, Ruby, PHP
- Frameworks: Django, Flask, .NET, Next.js, React, React Native
- Databases: MySQL, SQL Server, SQLite, MongoDB, PostgreSQL, DynamoDB
- Version Control: Git, GitHub
- Containerization and Orchestration: Docker, Kubernetes
- Cloud Services: AWS, Firebase Authentication
- Automation Tools: Power Automate, PowerApps, Automation Anywhere
- Operating Systems: Windows, Mac, Linux (specialist in Kali Linux)
- Frontend: React.js, Vue.js, JavaScript, HTML, CSS
- Backend: Django, Laravel, Node.js
- Data Analysis: Python for Data Analysis, Power BI, SQL, MongoDB
- Machine Learning: Keras, TensorFlow, scikit-learn, regression, linear, decision trees
- Debugging: Python, WinDbg
- Bug Management Tools: Jira, HSD, etc.

COMPLEMENTARY TRAINING

- From 0 to Programmer: Python from 0
- SQL Bootcamp with MySQL, PHP & Python
- Data Science with Analogies`, Algorithms and Solved problem
- Web Scraping with Python
- Data Science with Analogies, Algorithms and Solved problem
- Python for Artificial Intelligence
- How to build your own first Voice Assistant in Python
- Learn Computer Vision with OpenCV Library
- Python - Data mining and Machine learning
- Artificial Intelligence with Python Course
- Machine Learning Crash Course
- Introduction to programming for Bioinformatics with Python
- Windows Command Line (cmd) & Batch Script Management
- Red Hat OpenShift 4 for beginners
- Linux, an introduction to the command console.
- Linux for Beginners: Crash Course
- Security in Linux: SSH connections and encryption with GPG
- kali linux basics
- Theoretical introduction to Computer Security
- Cisco CCNA Network Fundamentals Final Chapters
- Web Hacking for Beginners
- Ethical Hacking: Hacking with Python
- Ethical Hacking 2022: Metasploit Framework Course
- LEE's Web Hacking (Cross Site Scripting, SQL Injection)

COMPLEMENTARY TRAINING

- Android: Fundamentals to create your first applications
- Web Developer Course HTML CSS JavaScript Learn Web
- Flutter, easy level: Learn to develop your first App
- Flutter - Firebase Authentication
- Build Enterprise Web Apps with the Neutrinos Platform, Part 1
- Build Enterprise Web Apps with the Neutrinos Platform, Part 2
- A Beginner's Guide to NFTs: Create Your First NFT
- OpenScad Course: Design and 3D Printing
- Git and Github
- Complete Guide to Git and GitHub
- Jupyter x Docker
- Deep learning with PyTorch
- pycharm
- OpenScad Course: Design and 3D Printing
- Introduction to PHP and creation of a basic CRUD.
- Your first real website in PHP 7, MYSQL, AJAX and MATERIALIZE
- Modern sales system with Visual Basic net and SQLserver
- Matlab in 30 minutes!
- Learning MongoDB - NoSQL Database
- Master MongoDB, the leader of NOSQL with Clarity
- Fingerprint Attendance System (C# and MySql)
- Programming in C++ step by step from beginner to last level
- CSS Animation: Journey from Beginner to Advanced (2022)
- CSS3 From Scratch
- Web Developer Course HTML CSS JavaScript Learn Web
- Programming for Entrepreneurs - JavaScript
- Complete Zero to Hero Microsoft Powerapps Training
- Power Automate - Complete Microsoft Power Automate Course
- R. Introductory course to R.
- Introduction to programming with Ruby
- Unity + SQL Databases Player Management Leaderboards
- Microsoft Power BI - Getting Started with Power BI Tutorial
- Learn Power BI - Learn data analysis and build dashboards
- Free Digital Marketing Mastery Course
- Ethical hacking with Hak5 devices
- Wireshark and ARP Tutorial
- Ethical Hacking Introductory Course Using Kali

COMPLEMENTARY TRAINING

- Java - Learn everything about Java
- Google keyword research
- aka Bot RPA
- Creating a video game in Unreal Engine 5
- DP-900 Microsoft Azure Data
- AZ-900Microsoft Azure
- Oracle cloud infrastructure
- Read to build a personal blog website with Wordpress
- SQL boot camp
- Agile Scrum using Jira
- vue.js
- Multithreaded Java from scratch
- Reverse engineering .NET
- mobile app testing
- Certification course in javascript and jquery
- Bootstrap and jquery certification course
- HTML, JavaScript and Bootstrap Certification Course
- Google Ads 0 to hero
- Introduction to Pharmaceuticals and Biopharmaceuticals
- Build your web and mobile app with AWS
- Multi-tier architecture with AWS
- Qualitative research, designs and analysis.
- MEVN Stack
- Master Kubernetes with AWS Elastic Kubernetes
- Cyberchef, Cyber AI, QRadar and quantum computing
- Building your first microservice with .NET
- AWS and Machine Learning
- API Developer (Python/Django Rest/Flask/PostgreSQL/Postman)
- C# for Beginnings: .NET Winforms (desktop) + SQL
- The basics for developing a full stack MERN application
- AWS CloudFormation - Infrastructure as Code
- Frontend development with Svelte
- Discover web application security issues using Burp Proxy
- Introduction to Kotlin
- Create desktop GUIs with Python and PyQT
- Practice Python: Building projects with Python
- Python 3 Tkinter from 0- Graphical interfaces
- Deep Learning Prerequisites: The Numpy Stack in Python
- Deep Web - Introduction to the Deep Internet
- Creation and automation of Internet Radios Online
- Create your own game with Python
- Asteroids with Python PyGame
- Learn Python By building Games in Python