



# NISHANTH.G

## ASPIRING FULL- STACK DEVELOPER

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### Career Objective

**Aspiring Python developer** with a background in Petroleum Engineering and hands-on experience in water purification plant commissioning. Currently transitioning into the IT sector with a strong focus on back-end and front-end development. Skilled in Python, HTML, CSS, JavaScript, and responsive web design. Eager to apply problem-solving abilities and technical aptitude to develop efficient, user-friendly, and scalable applications.

### Educational Qualification

#### JCT College of Engineering and Technology

Bachelor of Technology – Petroleum Engineering; GPA: 8.20

Coimbatore, TN

**August 2015 – May 2019**

#### Nazareth Home English Medium HSS

ISC – Biology Science; Percentage: 89%

Balamaparam, TVM

**June 2013 – April 2015**

### Skills Summary

#### Computer Skills:

- ✓ Languages: Python, HTML5, CSS3, JavaScript (ES6)
- ✓ Front-End: React, Bootstrap
- ✓ Back-End: Node.js, Express.js, Python Flask
- ✓ Frameworks & Libraries: Pandas, Django, Flask, WTFORMS, SQLite, SQLAlchemy, Selenium, BeautifulSoup
- ✓ Tools: POSTMAN, DBViewer, PythonAnywhere, Git, Excel, PowerPoint, Word, Adobe Photoshop CS6
- ✓ Platforms: PyCharm, Visual Studio Code

#### Soft Skills:

- ✓ Problem Solving, Analytical thinking, Attention to Detail, Curiosity and Willingness to learn.
- ✓ Adaptability, Time Management, Collaboration and Communication, Creative Thinking.

#### Software Skills:

- ✓ SCADA : Simatic WinCC V7.5, Zenon SCADA V11
- ✓ PLC : TIA Portal [V13, V15, V15.1, V17], Connected Component Workbench V22.0, GX Works 3
- ✓ HMI : TP Comfort Panels, GT Designer 3, Vijeo Designer V1.1 & V6.2, DOP Soft V2.0
- ✓ Computerized System Validation, Qualification Document Preparation, Execution, Compilation.

### Work Experience

#### COMMISSIONING ENGINEER – Water Purification Systems | NNSPL | [LINK](#)

**February 2023 - Present**

- ✓ Responsible for overseeing the installation, testing, and validation of water purification systems.
- ✓ Ensuring compliance with pharmaceutical industry standards such as GMP.
- ✓ Coordinated with cross-functional teams to execute commissioning protocols, troubleshoot system issues, and ensure optimal performance of purified water (PW), water for injection (WFI), and clean-in-place (CIP) systems.
- ✓ Conduct validation activities including Installation Qualification (IQ), Operational Qualification (OQ) and Computerized System Validation (CSV).
- ✓ Maintained detailed documentation and supported regulatory audits.
- ✓ Led the completion of 8+ projects, including 3 turnkey executions, ensuring end-to-end delivery from setup to final validation.

#### SENIOR PROJECT ENGINEER | HTES | [LINK](#)

**November 2020 - February 2023**

- ✓ Prepare Schedule, coordinate and monitor complete project, from initial civil tank constructions to the final commissioning of the water and wastewater treatment plant.
- ✓ Verification and modification of bill of quantities to reduce the cost without affecting the quality and process.
- ✓ Arranging and Providing training and awareness programs for the project teams in-order to increase their productivity.
- ✓ Design of **STP, ETP, MULTIMEDIA AND IR FILTERS, SOFTNER, ION EXCHANGERS, RO/NF/UF, EDI, DM** plant.
- ✓ Drawing of treatment Plant Design, Complete Plumbing drawing in **AutoCAD**.
- ✓ Electrical Power and control wiring complete for a WWTP plant (DOL Starter, PLC).
- ✓ Marketing of STP/ETP/WTP

#### GET / LAB CHEMIST | WTT TECHNOLOGY SERVICES INDIA PVT LTD | [LINK](#)

**July 2019 – October 2020**

- ✓ Maintain Stock list of Chemicals, Tools and other materials required for the smooth running of plant without any problems.
- ✓ Perform day-to-day routine and preventive maintenance within the plant.
- ✓ Doing Lab analysis (COD, MLSS, MLVSS, TOC, IC, Oil and Grease, Ammonia) and keep track of report of waste water contaminants and quality of product water obtained from the waste water treatment plant.
- ✓ Analysis and maintaining all the parameters in the Effluent Treatment system including Activated Sludge system, Chemical Treatment system, RO treatment system.
- ✓ Microscopic examination of Activated sludge process and troubleshoot.

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## Certificates

### 100 Days of Code, Complete Professional Python Bootcamp (Udemy) | [CERTIFICATE](#)

May 2025

- ✓ Learned Beginner and Intermediate level Python Programming includes – String Manipulation, Mathematical and Logical Operations, Error Handling, Randomisation, Dictionaries, Lists, Functions, Debugging Techniques, OOP, Class creation (attributes and Methods), Game development using Turtle module, Inheritance, External file (CSV, TXT) reading, writing and creating, List and Dictionary Comprehensions.
- ✓ Learned Pandas Framework to read files, creating Dataframe from scratch, Installing external modules in PyCharm.
- ✓ Learned to create Desktop GUI Apps using Tkinter module, Error Handling and Exemptions.
- ✓ Learned API's with Authentication, JSON files. Creating RESTful API's with features of GET, POST, PUT or PATCH & DELETE requests using POSTMAN.
- ✓ Learned Web scrapping Techniques with BeautifulSoup.
- ✓ Learned Automatic Email using SMTP module and datetime Module. Learned Website Automation using Selenium Web driver
- ✓ Learned Web development with Flask module. Also creating forms using WTForms. Templating with Jinja 2 inside HTML.
- ✓ Learned about Python Decorators and its use in Authentications.
- ✓ Learned to create Databases with SQLite and SQLAlchemy and CRUD operation using python.

### Professional Diploma in Industrial Automation (IPCS Global)

July 2023

- ✓ Completed PDIA from IPCS Automations Pvt Ltd, Chennai (Government Approved Training Institute) with 300 hrs of Theoretical and Practical experience in Industrial Automation Tools Specialized in PLC's (Zelio soft, Allen Bradley, Delta, Siemens) SCADA(Wonderware Intouch) , HMI(Delta, Siemens, Schneider, Allen Bradely)
- ✓ Verification ID: **IPCS066022128**

### The Complete 2023 Web Development Bootcamp (Udemy) | [CERTIFICATE](#)

December 2022

- ✓ Learned about Front End Development covering HTML5, CSS3, Flexbox, Grid, Bootstrap5, Javascript ES6, DOM Manipulation, jQuery.
- ✓ Learned Backend Web Development covering Node.js, NPM, Express.js, EJS, REST, APIs, Databases, SQL, PostgreSQL, Authentications.
- ✓ Learned React.js (Components, Import & Exports, Props, Hooks, Mapping Data, Arrow Functions, Conditional Rendering, States, Array and Object De-structuring, Event Handling, Form, Complex state)

### Useful Excel for Beginners (Udemy) | [CERTIFICATE](#)

December 2022

- ✓ Gained a solid understanding of Excel's interface and basic functionality and to create, format, and manage spreadsheets effectively.
- ✓ Used basic formulas and functions (SUM, AVERAGE, IF, etc.) for data analysis. Practiced sorting, filtering, and organizing data efficiently.
- ✓ Developed skills in creating and customizing charts and tables.

### The Complete AutoCAD 2018-21 Course (Udemy) | [CERTIFICATE](#)

May 2021

- ✓ Gained a comprehensive understanding of the AutoCAD interface and tools. Learned to create, modify, and annotate 2D drawings with precision. Mastered essential commands like LINE, TRIM, OFFSET, FILLET, and ARRAY.
- ✓ Developed skills in using layers, blocks, and object properties for organized design. Practiced dimensioning, hatching, and text annotations for clear documentation. Learned to manage layouts, viewports, and plotting for professional output.

### Certified Automation Engineer (Technocrat Automations)

December 2017

- ✓ Obtained Certification from Technocrat Automation Pvt Limited (IAO Accredited), Chennai. With 1 month hands on practical experience in Industrial Automation Tools specializing in PLC, SCADA and VFD.
- ✓ Knowledge in Panel wiring, troubleshooting, PLC programming for different brands including ABB, AB, SEIMENS.
- ✓ Basic Knowledge on SCADA Wonderware Intouch.

### Developing Soft skills and Personality (IIT Kanpur)

September 2017

- ✓ Completed a course on *Developing Soft Skills and Personality*, gaining valuable insights into effective communication, teamwork, time management, emotional intelligence, leadership, and professional etiquette.
- ✓ The course enhanced my ability to collaborate, think critically, and present myself confidently in both academic and professional environments.

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## Paper Publication

**Topic:** *Application of Conditioning, Curve Synthesizing And Quality Control Of Well Log Data's* | [DOI URL](#)

**Journal:** International Journal of Advanced Research (IJAR); Published on: May 2019 (Vol. 7, 5<sup>th</sup> Issue); Article DOI: 10.21474/IJAR01/8998

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## Achievements

- ✓ Nominated for Best Outgoing Student in College.
- ✓ Received Pro-efficiency award at HSC level.
- ✓ Topper of the year award in 2015 at HSC level.

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## Personal Details

Fathers name: Ganesh. N  
Mothers name: Sandhya A  
DOB: 03-11-1997  
Gender: Male  
Passport No: **T3739809** (Expiry Date: 03/07/2029)

Nationality: Indian  
Marital status: Married  
Languages Known: Malayalam., Tamil, English, Hindi  
Hobbies: Listening music, Caroms, Video editing, Learning new skills