

Carlos Pimentel

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Python Developer

Skilled Python and Web Developer with a robust background in Geographic Information Systems (GIS) and software development. With over a decade of experience in IT industry. I have honed my skills in Python programming, web development, and project management. I excel in creating dynamic web applications and websites, leveraging my expertise in geospatial data management and visualization. My proven track record includes delivering high-quality solutions for diverse projects, underpinned by strong problem-solving abilities, attention to detail, and analytical skills. My skill set encompasses critical analysis, innovative design, and a commitment to customer satisfaction. Whether developing web apps with Python, managing projects, or crafting user-centric web solutions, I am dedicated to meeting and exceeding user needs with a passion for technology and innovation.

WORK EXPERIENCE

Remote, Finland • Remote, Finland • 09/2024 – Present

Critical Infrastructure Mapping Project, Finland Tomkulak

Python and GIS Specialist

- Collaborate with a team of GIS analysts and experts in critical infrastructure to develop a series of maps identifying potential infrastructure projects, such as transportation networks, energy facilities, water and wastewater management, and emergency services.
- Utilize advanced GIS techniques, including remote sensing, Digital Elevation Models (DEM), and spatial analysis to determine optimal locations for infrastructure development based on environmental and geographic conditions.
- Manage and process geospatial data to highlight viable infrastructure development opportunities while ensuring the scalability, accuracy, and precision of the maps.
- Conduct spatial data analysis for infrastructure integration across different sectors and national borders, including transportation hubs and energy systems, to support Finland's role in the wider Arctic Critical Infrastructure System.
- Participate in weekly remote meetings with the GIS team to coordinate tasks, review progress, and ensure the alignment of the mapping outcomes with the project's goals.

SKILLS

Agile, API Management, ArcGIS Pro, Confluence, CSS3, Customer Support, Figma, Geographic Information Systems (GIS), Git, GitHub, Google Earth Pro, HTML, Information Management, J2EE, Java, JavaScript, Jira, JSON, PHP, PostgreSQL/PostGIS, Power BI (DAX), Project Management, Python, QGIS, Salesforce CRM, Spatial Analysis, Spoken Production, Spring Boot, Troubleshooting, Web Development, XML, Zoho CRM

EDUCATION

GEOGRAPHIC INFORMATION SYSTEMS

UNIVERSITY OF BEIRA INTERIOR
Covilha, Portugal

GEOLOGY

TECHNICAL UNIVERSITY OF ANGOLA
Luanda, Angola

WEB DESIGN

UNIVERSITY OF CAPETOWN
Cape Town, South Africa

JAVA PROGRAMMING AND SOFTWARE ENGINEERING FUNDAMENTALS SPECIALIZATION

COURSERA, DUKE UNIVERSITY

- Contribute to the creation of Finland's National Critical Infrastructure Map (MV3), which engaged key Finnish stakeholders, and was integrated into the Arctic Critical Infrastructure System Development Map, showcasing potential collaborative projects among Arctic nations.

Remote, Portugal • Remote, Portugal • 12/2023 – Present

SOVOS

SOFTWARE SUPPORT ANALYST II

- Provide technical support on regular production issues, processes, and procedures; resolve product and service concerns or opportunities by utilizing product knowledge and organization acumen.
- Analyze XML, JSON, Python and Java connections between company system and client, draw UML for process improvement, agile project management.

Manteigas, Portugal • Manteigas, Portugal • 06/2023 – 09/2023

CIMBSE (INTERMUNICIPAL COMMISSION OF BEIRAS AND SERRA DA ESTRELA)

GEOREFERENCING TECHNICIAN

- Produced high-quality maps and visualizations for various projects, meeting strict deadlines and client requirements, earning positive feedback from clients and team members for clear and effective designs.

Luanda, Angola • Luanda, Angola • 06/2006 – 12/2022

SELF EMPLOYED

SOFTWARE DEVELOPER

- Engaged in developing web apps using JavaScript, Python, or Java providing fully functional apps and data visualization.
- Analyzed user needs, designed, tested, and developed software that met those needs.
- Proficient in Core Java, J2EE, Spring Boot, Restful Services, and experienced in using IntelliJ and Eclipse for development.

GEOGRAPHIC INFORMATION SYSTEMS TECHNICIAN

- Create and work maps with (ESRI, QGIS, Google Earth Pro);
- Georeferencing Maps (and Google Earth Images)
- Access and query a database (PostgreSQL).
- Spatial analysis and resolution of geographic problems using ArcGIS analysis tools.
- Geostatistical analysis

WEB DEVELOPER

- During this role I have created web design prototypes, websites using WordPress CMS and vanilla JavaScript.

BUSINESS ANALYST

- Database management, dashboard creation and maintenance, KPI analysis, digital transformation.

DIVIDE AND CONQUER, SORTING AND SEARCHING, AND RANDOMIZED ALGORITHMS

COURSERA, STANFORD
ONLINE

GRAPH SEARCH, SHORTEST PATHS, AND DATA STRUCTURES

COURSERA, STANFORD
ONLINE

BUILDING_WEB_GIS_JAVA

UDEMY

3D VISUALIZATION TECHNIQUES USING ARCGIS

ESRI

GEOSTATISTICAL INTERPOLATION – CREATING A 3D PREDICTION SURFACE

ESRI

GOOGLE PROJECT MANAGEMENT

COURSERA, GOOGLE

DJANGO IN REAL LIFE – BUILD COMPLEX RESTAURANT PLATFORM

UDEMY

GOOGLE DATA ANALYTICS

COURSERA, GOOGLE

VISUALIZING DATA USING ARCGIS API FOR PYTHON

ESRI

AWS TECHNICAL ESSENTIALS

AWS SKILL BUILDER