

# HENRIQUE DALLA CORTE

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## WHO AM I?

Software Engineer specialized in Back-End development with Python, Django, and FastAPI, applying microservice-oriented architecture principles, API versioning, and TDD/unit testing practices. Experienced in building scalable, distributed systems with container orchestration via Kubernetes, custom Dockerfile creation, and multi-Pod deployment configurations.

Solid background working with both relational (PostgreSQL, MySQL, Firebird) and non-relational databases such as MongoDB. Skilled in implementing caching and messaging mechanisms using Redis, and managing asynchronous tasks with Google Cloud Tasks, Google Buckets, and Cronjobs for background processing and report generation.

Proficient in developing and maintaining RESTful APIs, designing and consuming integrations with third-party services (payments, notifications, translations, AI), and implementing custom middlewares, multi-tenant authentication, and internationalization (i18n). Hands-on experience with object-oriented programming (OOP), design patterns, and code refactoring to improve test coverage and system performance.

Strong adaptability to domain-specific business logic. Actively worked in Agile environments with Scrum, Kanban, and Planning Poker. Academic background includes a Bachelor's degree in Computer Science (UFFS) and eight postgraduate degrees in areas such as Software Engineering, Cloud Projects, Data Protection (LGPD), Full Stack, Architecture with Design Patterns and UX/UI Design.

Python / Django / FastAPI / Git / REST APIs / Confluence / Jira / Google Cloud Platform (GCP) / Redis / Linux / SQL / NoSQL / Agile Methodologies / Kanban / TypeScript / Angular

## LANGUAGES

Português - Native | Inglês - Advanced / Technician

## EXPERIENCE

2022-01 – Current **Senior Back End Engineer** **Neoprospecta**  
Back-End Developer Django / Django Rest Framework with TDD and Unit Testing in software for biotechnology solutions. Development of features and maintenance in Angular.

Main duties and responsibilities:

- Development of RESTful APIs for microbiology data registration
- Generation and maintenance of API documentation
- Generation and maintenance of internal documentation
- Microservices for integration between internal systems
- Asynchronous report generation in spreadsheets and PDFs using Google Tasks and Google Bucket
- Processing and validation of information via spreadsheets using Google Tasks, Google Bucket, Redis, and email notifications
- Use of APIs for SMS/email sending and validation
- Scheduling of asynchronous tasks via Google Cronjobs
- Use of middlewares for internationalization (i18n) and account management
- Use of service runners for server management
- Integration with AI services for risk generation
- Integration with translation services for automatic translation
- Backlog management for task tracking
- Environment management and deployment
- Execution of automated test scripts
- Refactoring and increasing test coverage (unit and integration) using mocks
- Application of Object-Oriented Programming (OOP) and design patterns - Database support and maintenance

**Skills:** Bitbucket / Confluence / Jira / Web Crawling / Google Cloud Platform (GCP) / Tasks / Bucket / Services / Redis / Performance Querys / Linux / PostgreSQL / Agile Methodologies / REST APIs / Python / Django REST Framework / TypeScript / Django / Bootstrap / AngularJS / Angular

2022-10 – 2023-10 **Mid Backend Web Developer**

**Atar B2B**

Back-End Developer Python with Unit Testing in software for Banking as a Service, banking core, white label solutions, payroll and payment automation. Development of features, maintenance and migration of python version.

Main duties and responsibilities:

- Use of Google Cloud Database
- Development using tenant-based architecture for client differentiation
- Creation and use of microservices
- Code refactoring and improvement
- Python 2 to 3 migration and library updates
- Implementation of unit tests
- Use of design patterns and object-oriented programming
- Report generation
- Data processing
- API documentation creation and maintenance
- Scope alignment
- Integration with payment method partners

**Skills:** Github / SonarCloud / Confluence / Jira / Web Crawling / Google Cloud Platform (GCP) / Agile Methodologies / REST APIs / Python / FastAPI / Docker / Architecture

2019-08 – 2022-01 **Mid Full Stack Web Developer**

**Magazine Médica**

Full Stack Developer Python/Django/JS/Firebird/PostgreSQL - E-commerce/ Internal System. Develop APIs, Front-End, Back-End with tests in TDD, Database Modeling, UX/UI and Data Analysis.

Main duties and responsibilities:

- Full Stack Developer Python/Django/JS/Firebird/PostgreSQL – E-commerce/Internal System
- Develop APIs, Front-End, and Back-End with TDD tests
- Database modeling, UX/UI design, and data analysis
- Development of integrations between internal systems and e-commerce
- Development of integrated backend and frontend features
- Requirements gathering and validation
- Documentation generation
- Use of cron jobs for scheduling and data processing
- Development of inventory and order management systems
- Development of payroll and asset management systems
- Development of people management systems
- Development of payment integration
- Development of order shipping and delivery time integration
- Implementation of unit tests
- Internal user support
- Development of internal management applications
- Database modeling and support
- UX and UI modeling
- Data analysis for generating sales demand and pre-orders
- Improvement and correction of triggers and views

**Skills:** Bitbucket / Jira / Firebase / Financial Analysis / PostgreSQL / REST APIs / User Experience (UX) / Python / Django / Bootstrap / JavaScript

2023-11 – 2024-04 **Mid Full Stack Web Developer**

**MTM Technology**

Development with Python aimed at Low Code; Integrations with APIs; Automation of processes and codes; Development with HTML/CSS/JS; Agile Software Development.

Main duties and responsibilities:

- Support and maintenance of pages and integrations
- Integrate with third parties
- Meet customer demands and designed functionalities
- Manage customer demand and assist with requirements

**Skills:** Low Code / Python / Web Crawling / Linux / Agile Methodologies / REST APIs / SOAP APIs / JavaScript

2018-11 – 2019-08	<b>Database Analyst and Support</b> SQL database migrations with DBs from external telecommunications systems to own system. Maintenance in MySQL / ERP database.  Main duties and responsibilities: <ul style="list-style-type: none"> <li>- Development of scripts for migration automation in PHP and Python</li> <li>- Create and use MySQL databases</li> <li>- Manage and extract information from various types of databases</li> <li>- Migrate different databases while maintaining integrity with MySQL</li> <li>- Model data for application in telecom ERP systems</li> <li>- Extract and analyze spreadsheet data for MySQL database modeling</li> <li>- Automate formatting and modeling processes for data migration</li> <li>- Integrate with clients in the early stages of ERP migration</li> <li>- Manage demands and schedules in ERP migration pipelines</li> <li>- Budgeting and product analysis for ERP migration and integration</li> <li>- Facilitate the initial phase of integration and product onboarding</li> </ul> <b>Skills:</b> Analytical Skills / Microsoft SQL Server / PostgreSQL / Strategic Planning / Customer Service / SQL / MySQL / Firebird	IXCSOft
2018-01 – 2018-11	<b>Full Stack Web Developer Internship</b> Full Stack Python/Plone Developer - Institutional Site.  Main duties and responsibilities: <ul style="list-style-type: none"> <li>- Development of Python features focused on article publishing</li> <li>- Integration with institutional systems</li> <li>- Customization of the Plone library to meet internal demands</li> <li>- Development of integrated screens and forms for information registration</li> <li>- Development and maintenance of forms for data collection</li> </ul> <b>Skills:</b> Plone / NoSQL / Python / Bootstrap / HTML5	Federal University of Fronteira Sul

## EDUCATION

2015 – 2018	<b>Bachelor's degree in Computer Science</b> Activities and societies: Activities consistent with the course, in addition to participation in programming groups and production of 3D objects. The UFFS Computer Science Course is a course that aims, through solid foundations in the computing area, to train scientists capable of playing an important role in information technology (IT) areas, both in industry and in academia. The course offers several options for the student to delve deeper: database, computer graphics, computer networks, software engineering, hardware and computer theory.	UFFS - Federal University of Fronteira Sul
2019 – 2020	<b>Postgraduate degree Systems Analysis, Design and Management</b> Object-oriented software, Project risk management, IT Management, Loss and fraud prevention, Relational database and Big Data, BI: business intelligence, Minimalist management: agile methods, design and Lean Thinking, Agile and systems analysis and IT technologies and solutions.	UNOPAR College
2020 – 2021	<b>Postgraduate degree Software Engineering</b> Team Management - Agile Methods, Object Oriented Software Analysis and Design, Internet of Things, Data Sciences and Big Data and Artificial Intelligence.	FAEL College
2020 – 2021	<b>Postgraduate degree UX Design e Learning Experience</b> UX Design, User Research, Design Thinking, Design Sprint and UX Design, UX Strategies and Experience Mapping, Information Architecture and Interaction Design, Interface Design (UI Design), Prototyping and Usability Testing, Complete Project.	Instructional Design Institute
2021 – 2021	<b>Postgraduate degree Cloud Computing Projects</b> Technical improvement of information structuring through technological tools for data management and storage, thus acquiring more complex and useful administrative skills for the development of the institution.	Descomplica College
2021 – 2021	<b>Postgraduate degree LGPD</b> General Theory of LGPD; Processing of Personal Data; Civil Liability in the LGPD; LGPD in Practice; Implementation Techniques, Adequacy and Management of Data Protection in Compliance with the LGPD.	Legale College

2022 – 2023	<b>Postgraduate degree Technologies for Professional Education</b> <b>Catarina</b> Application of knowledge in educational methodologies in corporate education, organizational knowledge management or other professional fronts.	IFSC - Federal Institute of Santa
2023 – 2024	<b>Postgraduate degree DevOps Engineering</b> Information Technology Infrastructure, Solution Development with Python, Software Engineering, Cloud Computing, Database Management, Agile Software Project Management, Introduction to Virtualization, DevOps and Cybersecurity	Focus College
2024 – 2025	<b>Postgraduate degree Systems Architecture and Development with an emphasis on Design Patterns</b> Practical application of programming and design patterns, promoting the improvement of students' technical skills.	Gran College
2024 – 2025	<b>Postgraduate degree Full Stack Development and Cloud Computing Gran College</b> Application of the use of technology as a business differentiator in the use of cloud resources.	Gran College
2021 – 2021	<b>Accounting - Technical Education</b> Identify and apply rules and laws relevant to the organization's tax regime; Record accounting operations, and examining fiscal and quasi-fiscal documents; Prepare documentation, determine assets, rights and legal obligations; Assist in relation to CLT, employment contract and more; Apply concepts of financial mathematics, using financial calculators or spreadsheets; Apply principles and concepts such as equity, revenue, gross profit and net profit, costs and expenses, contribution margin and others related to productivity and profitability.	FASPEC