Valentina Fernandez

Software Engineer

Mar del Plata, Argentina| valen.fernandez.montenegro@gmail.com | +54 223 6360984

EDUCATION

Universidad Nacional de Mar del Plata - *Software Engineering*
Recognised for academic excellence with a "Distinguished Graduate" honour. (2024)

SKILLS

- **Programming Languages:** Python, Java, C.
- **AI & Machine Learning:** Classification, Regression, Model evaluation, Natural Language Processing (NER, tokenization, embeddings), Prompt Engineering, scikit-learn, SpaCy, Whisper.
- **Data Science, Analytics & Visualization**: Numpy, Pandas, Jupyter Notebooks, Data Cleaning, Data Analysis, ETL, Altair, Seaborn, Matplotlib, Folium.
- **Web Development:** Django, HTML, CSS, Bootstrap.
- **Databases**: SQL, PostgreSQL, SQLite, Database Design, ER Modeling.
- **Cloud Platforms**: Microsoft Azure, AWS, Oracle Cloud.
- **DevOps & Workflow Tools:** Azure DevOps, CI/CD pipelines, ServiceNow, Git.
- **Distributed Systems & Messaging:** Celery, Redis.
- **Agile Methodologies** & **Requirements Analysis**.
- **Languages**: English (C2 - Advanced), Italian (A2 - Basic)

EXPERIENCE

Accenture, Mar del Plata
Technical Architect Cloud DevOps

November 2024 –Present

- Maintained and optimized a payroll system used by thousands of employees across regions, automating data workflows and manual tasks to ensure accurate payroll processing.
- Lead an infrastructure power schedule reorganization project for 50+ servers, leading to up to 30% of cost savings for each optimized server.
- Managed deployments, server maintenance, password rotations, and environment setups in Azure pipelines and AWS for 8 apps and multiple servers.
- Managed and prioritised task queues for a team of 15, ensuring efficient workflow and timely resolution of issues. Took care of shift transition tasks and was the point of contact regarding cross team issues.
- Established and maintained a comprehensive documentation repository, improving onboarding and operational efficiency.

ServiceNow Application Developer for Operations

December 2023 – November 2024

- Implemented workflows, forms, SQL queries, and automation scripts in ServiceNow to deliver ServiceNow solutions, ensuring alignment with business needs and compliance.
- Monitored the performance and health of internal applications, identifying and resolving issues.
- Resolved user-reported incidents, ensuring minimal disruption to business operations.
- Performed DevOps tasks, including the migration of on-premises resources to cloud infrastructure, deployments, and access management in test instances and production.

- Served as Secondary Scrum Master, facilitating Agile ceremonies and ensuring team alignment in the absence of the primary Scrum Master.

InFo-Lab, Mar del Plata
Researcher and Developer
November 2021 – January 2023 (Full time)
January 2023 - Present (Part Time)

- SPICA project "Systematization and Production of Knowledge in Artificial Intelligence and Digital Evidence": Worked on training, testing, and applying AI and NLP models to the analysis and processing of digital evidence. Co-authored papers on applied artificial intelligence, Natural language processing and Biometric data.
- Led the design and development of the OlympIA web system for textual evidence analysis: built datasets, trained multiple models (text classification, NER & sentiment analysis), and created a web interface that processes evidence and presents a summarized graphical report of the results. Reducing evidence processing time from 7 days to just 15 minutes, a 200x efficiency improvement. (Python, Spacy, Altair, Pandas, Celery, Redis etc.)
- Developed the "SUR-GEN" system for keeping records of gender violence victims, which facilitated efficient data analysis. Currently in the testing phase at the Necochea prosecutor's office. (Django, SQlite, PostgreSQL, HTML, CSS, Ubuntu)
- Developed a data analysis and visualization module to present relevant information collected by SUR-GEN to government officials. (Seaborn, Matplotlib, Pandas, Folium)
- Collected and analysed client requirements for the SURGEN and OlympIA systems, maintained client communication to refine features and ensure timely delivery.

Universidad Nacional de Mar del Plata
Operating Systems Teaching Assistant

March 2021 – July 2025

- Gave practical lectures in operating systems and operating system design courses.

InFo-Lab, Mar del Plata
Software engineer intern

January 2021 – April 2021

- Applied NLP techniques for violence detection in text as part of the TRIAGE-ED Project, assisting in the cleaning, processing and analysing of a dataset containing over 2000 judicial cases.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 AI Foundations Associate (2025).
- Microsoft Certified: Azure Fundamentals 2025 (2025)
- Scrum Foundation Professional Certification - SFPC™. (2024)

ACCOMPLISHMENTS

- Co-authored the chapter *"Machine Learning to Identify Gender Violence"*, in the forthcoming book *Evidence: Analysis, Interpretation, and Probative Value* (Universidad Autónoma de Oaxaca, México).
- Finalist in the Hackathon "Technological Solutions to Combat Gender Violence" (Ministry of Productive Development of the Nation, 2021), selected among 30+ teams.
- Invited Speaker at InfoConf 2022 "Application of NLP in the justice system".
- Guest Lecturer on Applied AI: Delivered lectures and workshops on applied artificial intelligence at university events.
- Lecturer on the course "Artificial Intelligence Today: Uses and Applications; Realities and Myths" at UTN. (2024)