Martín González Prieto

Advanced Computer Engineering student

 Buenos Aires, Argentina   martin.gp@proton.me   011 2235-8723   mgonpri   tin-gprieto

Experience

Ad honorem assistant, FIUBA – Buenos Aires, Argentina   Mar 2024 – Jun 2025

Teaching collaboration in the subject "Computer Organization" of the Computer Engineering degree.

- Correction of practical work
- Contents: binary representation, x86 microarchitecture, Assembly and caching

Executive Secretary of CEPSI and NGL, Centro Argentino de Ingenieros (CAI) –   May 2024 – Dec 2024
Buenos Aires, Argentina

Internship in administrative role within management and technical committees.

- Management of administrative tasks
- Meeting coordination
- Preparation of minutes and monitoring of internal projects

Frontend Programmer, Banco Provincia de Buenos Aires – Buenos Aires, Argentina   May 2021 – Aug 2022

Participation in the development of web solutions for the banking sector.

- News portal development with React
- Institutional CMS implementation using Angular
- Survey and analysis of requirements together with business areas

Education

Facultad de Ingeniería, Universidad de Buenos Aires (FIUBA), degree course in   Jan 2019 – present
Computer Engineering – Buenos Aires, Argentina
Advanced Computer Engineering student.

- 195 of 226 credits approved (86% of the degree)
- General average: 7.74

Universitat Politècnica de València (UPV), academic exchange in Computer Engi-   Feb 2025 – Jul 2025
neering – Valencia, España
Academic exchange with the degree program in Computer Engineering and with the Master's Degree in
Cybersecurity and Cyberintelligence (MUCC).

- Parallel computing
- Concurrency and distributed systems
- Computer Forensics and Malware Analysis (MUCC)
- Pentesting and ethical hacking (MUCC)
- Systems based on Deep Learning for Industry

Colegio Nacional de Buenos Aires, Secondary education in Bachelor – Buenos   Jan 2014 – Dec 2018
Aires, Argentina

Languages

- Spanish — Native
- English — Intermediate

Technical Skills

Tools: Docker, Linux, Git, Github, Makefile, Bash (Shell Scripting)

Programming languages: C, Python, Rust, JavaScript, TypeScript, Smalltalk, Java, Assembly

Web development: HTML, CSS, SASS, React, Angular JS, Next.js, SpringBoot

Machine Learning and Deep Learning: TensorFlow, Scikit-learn, Keras

Data visualization tools: Matplotlib, Seaborn, Datadog, Grafana

Database management systems (DBMS): SQL, Neo4j, MongoDB, PostgreSQL

High Performance Computing (HPC): OpenMP, MPI, CUDA

Office automation: Excel (intermedio), Sony Vegas, GIMP

Soft Skills

- Effective communication and teamwork
- Critical thinking and problem solving
- Organization and optimization of tasks
- Adaptability to new challenges
- Proactivity and autonomy
- being agile - Scrum and agile methodologies

Certifications

Qiskit Fall Fest Mentor (IBM)

Organizer of the first Qiskit Fall Fest days at FIUBA.

- Dissemination and contact with sponsors
- Organization of the Kickoff and Hackathon event

Data Classification and Summarization Using IBM Granite (IBM)

IBM course on data classification and summarization using IBM Granite.

- Data preprocessing techniques
- Classification and summary models
- Practical implementation with IBM Granite

Proyects

Autonomous Prevention Agents

Final group work for the subject "Programming Workshop" which consists of the development of an urban security system with drones and cameras that detect and resolve incidents through asynchronous messaging and artificial vision.

- Developed in Rust for Unix and Linux environments.
- Own implementation of the MQTT 5.0 protocol with QoS 1.
- Incident detection with Microsoft Azure AI Vision.
- Coordination of drones and cameras through Pub/Sub architecture.
- Concurrency management through threads and threadpools.

Toolbox for C

Collection of personal tools in C for creating terminal interfaces, data structures and unit testing.

- Interactive terminal interface with ANSI colors.
- Implementation of TDAs such as Lists, Queues and Hashes.
- Component management through dynamic memory.
- Auxiliary functions to speed up unit testing.
- Modular organization in Interface, TDAs and Tools.

Darkness Awesome Theme

Custom theme for the Awesome WM window manager for Linux, focused on a dark aesthetic and integration of informative widgets.

- Desktop environment configuration written in Lua.
- Integrated battery, temperature and Spotify widgets.
- Aesthetic customization of backgrounds, icons and resolution.

TanGo - Tourism Management

Final group work of the subject "Management of the Development of Computer Systems". Web platform, similar to TripAdvisor, to manage and visualize hotels, restaurants and tourist activities through microservices and AI assistance.

- Full Stack architecture with Spring Boot and Next.js.
- NoSQL database using MongoDB 8.0.
- Project management using agile methodologies (Scrum) and version control with Git.
- Google Gemini AI and Google Maps integration.
- Image management using bucket storage in Supabase.

CV-Page

Personal bilingual CV/Portfolio website with automatic generation of translations and export to PDF using RenderCV.

- Frontend developed with Next.js 14, TypeScript and Tailwind CSS.
- Automatic translation with Google Translate API.
- Generation of professional PDFs with RenderCV.
- Bilingual support (Spanish/English) with dynamic switching.
- Declarative configuration using YAML as a single source of truth.
- Continuous deployment in Vercel.