

# Agustín Monetti

CABA, Argentina · +54 2227416074 · [agus.monetti01@gmail.com](mailto:agus.monetti01@gmail.com)

[linkedin.com/in/agustin-monetti/](https://linkedin.com/in/agustin-monetti/) · [github.com/agmonetti](https://github.com/agmonetti) · [agus-monetti.is-a.dev/](https://agus-monetti.is-a.dev/)

## SUMMARY

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*Computer Engineering student at UADE with a strong focus on Software Development and Cloud Infrastructure. Hands-on experience with Docker, Google Cloud, SQL/NoSQL databases, and backend development. Passionate about applying technical knowledge to build scalable solutions through practical personal projects.*

## PERSONAL PROJECTS

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### GCP Free-Tier Home Lab

- Designed and deployed a production-ready microservices architecture using Google Cloud Platform (e2-micro). Orchestrated services (portfolio, bots, internal tools) using Docker Compose. Configured Nginx as a Reverse Proxy for secure traffic management. Implemented memory optimization (Linux Swap) to maximize limited resources. Established secure firewall rules.
- Stack: GCP, Docker, Nginx, Linux.

### Weather Monitoring System (TUI) (TUI)

- Developed a Terminal User Interface (TUI) application for real-time weather data visualization implementing a Polyglot Persistence strategy. Integrated PostgreSQL for structured relational data. Implemented MongoDB for unstructured historical logs. Utilized Redis as a high-performance caching layer to reduce latency.
- Stack: JavaScript, Redis, MongoDB, PostgreSQL, SQL, System Design.

### Buenos Aires Subway Alert Bot

- Developed an automated bot to monitor the status of Buenos Aires subway lines in real-time. Engineered scraping to detect service changes. Integrated with the Telegram API to send automatic instant alerts to users.
- Stack: Docker, Python, REST APIs.

## WORK EXPERIENCE

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### Freelance

#### IT Technical Support

- Diagnosis and resolution of hardware and software incidents for personal computers. Installation, configuration, and maintenance of operating systems (Windows/Linux). System optimization, hardware cleaning, and security update management.

## EDUCATION

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### UNIVERSIDAD ARGENTINA DE LA EMPRESA (UADE)

Computer Engineering

**Buenos Aires, Argentina**

*Expected Graduation: 2027*

## TECHNICAL SKILLS

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- Certifications: Google Cloud Computing Foundations, Google Search & Display Ads Certifications
- Spanish (Native), English (Advanced/C1).
- Docker, JavaScript, Python, Java, Google Cloud Platform, SQL, Redis, MongoDB, PostgreSQL, GitHub, Git, Linux