Nicolás Pérez Mundaca

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Languages: Bash, Python, JavaScript
Technologies: Linux, Docker, Kubernetes, Ansible, Google Cloud (GCP), PostgreSQL, ClickHouse DB

Profile

DevOps engineer with over 5 years of experience in designing, testing, and maintaining scalable application infrastructures. In my previous role, I led the transition from a monolithic architecture to a containerized ecosystem orchestrated with Kubernetes. This involved breaking down legacy systems into microservices, containerizing them with Docker, and streamlining deployment through automated pipelines using GitHub Actions for enhanced efficiency and reliability.

Earlier in my career, I worked as a full-stack engineer, developing data-intensive platforms. This background provided me with a deep understanding of both development and operations, allowing me to bridge these domains effectively and contribute to scalable and high-performance solutions.

I am currently focused on driving innovation and operational excellence within DevOps teams, delivering reliable, cutting-edge infrastructure solutions.

Professional Experience

- **Datawheel**   **Cambridge, MA, USA**
  DevOps Engineer   *Dec. 2021 – Nov. 2024*
  - Spearheaded the migration from a monolithic system to a scalable, containerized microservices architecture using Docker and Kubernetes, enhancing system flexibility and deployment efficiency.
  - Designed and implemented CI/CD pipelines with automated testing and deployment for REST APIs and Next.js applications on GitHub Actions and GitLab CI/CD, reducing manual errors and accelerating release cycles.
  - Extensively utilized Google Cloud Platform (GCP) services, optimizing cloud infrastructure, automating deployments, and implementing best practices for security, scalability, and cost efficiency.

  Fullstack Developer   *Dec. 2019 – Nov. 2021*
  - Developed data visualization platforms that enabled organizations to explore and analyze complex datasets efficiently, integrating raw data ingestion, transformation, and interactive graphical insights.
  - Managed and fine-tuned development and production environments, implementing security best practices and performance optimizations to ensure high availability and scalability.

- **Center of Innovation Systems Studies (CIS2)**   **Concepción, Chile**
  Fullstack Developer   *Jul. 2019 – Dec. 2019*
  - Contributed to the development of an interactive data visualization platform that provided economic insights for various industries and regions, aiding policymakers and business analysts in data-driven decision-making.

Education

- **Universidad de Concepción**   **Concepción, Chile**
  Industrial Engineering   *Mar. 2014 – Ago. 2019*
  Bachelor of Science in Engineering   *Mar. 2014 – Nov. 2017*