

# Samuel Vasco

Canadian Permanent Resident

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## EXPERIENCE

### Senior Software Engineer

Berlin, Germany

*Sennder*

*Jul 2022 - Dec 2024*

- Engineered a public user service to manage over 80K users, using NestJs, Kafka and AWS
- Developed multiple microfrontends handling thousands of daily visits and enhancing user experience
- Led the migration from AWS ECS to EKS, achieving a 20% cost reduction by optimizing autoscaling policies and resource utilization
- Conducted 60+ technical interviews for various roles, covering topics as frontend, backend and system design.

### Software Engineer

Madrid, Spain

*Atlas Real Estate Analytics*

*Jan 2020 - Jul 2022*

- Launched a real estate SaaS for the Spanish market, securing 400+ B2B clients within a year
- Designed data collection pipelines and advanced visualizations handling over 40M data points
- Orchestrated the automatic deployment, testing and monitoring of the system, resulting in over 99% uptime

### Data Analytics Intern

Madrid, Spain

*UC3M University*

*Jan 2018 - Jun 2018*

- Administrated SQL databases and automated the creation of 20+ reports using python and VBA, improving reporting efficiency
- Extracted hundreds of metrics and measurements for decision making and performance monitoring

## EDUCATION

### UC3M University

Madrid, Spain

*Bachelor of Science in Finance, Minor in Data Science*

*Aug 2017 - 2020*

### Johns Hopkins University

Remote

*Data Science Specialization*

*May 2019 - Sep 2019*

## PROJECTS

### Monolith Migration to Microservice | *Django, NestJs, Kafka, AWS EKS and Lambda*

*Jul 2022 – Jan 2023*

- Planned and executed the migration of over 80K users into a standalone microservice
- Built the Carrier User Service and User Lambda Authorizer to manage thousands of requests
- Implemented a new onboarding flow and authentication system supporting 1K daily active users

### Real Estate SaaS | *Django, FastAPI, Kubernetes, Apache Spark, React*

*Jan 2020 – Jul 2022*

- Created a data analytics SaaS for the Real Estate Market, attracting over 400 B2B users in one year
- Built data pipelines that scraped and ingested 1M websites per day for real time data analysis
- Designed and implemented house pricing models based on 40M historical records
- Orchestrated a Kubernetes cluster to auto deploy and scale 10+ microservices for system stability and performance

## TECHNICAL SKILLS

**Languages:** Typescript, Python, Javascript, Node.js, SQL, HTML, CSS, R

**Databases:** PostgreSQL, MySQL, Redis, DynamoDB, S3, MongoDB, Cassandra, Snowflake, ElasticSearch, Hadoop

**Frameworks:** React, Vue, NestJS, Fastify, Express, FastAPI, Django, Next.js, Tailwind CSS

**Devops:** IaC, Terraform, Pulumi, CloudFormation, Kubernetes, Docker, Linux, Karpenter, KEDA, Serverless

**Testing & Monitoring:** Jest, Cypress, Playwright, Pytest, Datadog, Sentry, CloudWatch, Prometheus, Grafana

## SOFT SKILLS

**Languages:** English(C2), French(C2), Spanish(C2), German(B2), Dutch(B1), Italian(B1)

**Software architecting:** Domain driven design, technical design documents, data driven decision making, layered architectures, SOLID principles

**Collaboration:** Detailed code reviews, agile methodology, mentorship and knowledge sharing, pair programming, continuous improvement, feature ownership and delegation