

Alejandro Baltra

PROFILE

Team-oriented and self-driven individual with a knack for tackling complex technical challenges aligned with measurable business objectives. I excel in designing and implementing scalable software solutions. Proficient in a range of programming languages and technologies, including C#, Python, Golang, and JavaScript. Strong advocate for efficient CI/CD practices and cloud-based infrastructure.

EXPERIENCE

SOFTWARE ARCHITECT, BILLTRUST; HAMILTON, NJ — MARCH 2023 - PRESENT

- Designed CI/CD infrastructure and implemented tooling for micro-frontends leveraging Jenkins and AWS Cloudfront for 0 downtime deployments while supporting ~250 thousand daily requests.
- Worked with 3rd party vendors to implement a streaming-based replacement for a batch process that transports ~200 million changes per day from a legacy MySQL database to a MongoDB cluster while supporting existing API contracts for backwards compatibility.

LEAD SOFTWARE ENGINEER, BILLTRUST; HAMILTON, NJ — SEPT 2020 - MARCH 2023

- Spearheaded the implementation of advanced caching strategies within the Identity and Access Management (IdAM) infrastructure, resulting in a remarkable ~15% reduction in latency across the entire system. This optimization significantly enhanced the user experience and system performance, making it more responsive and efficient.
- Architected and built a distributed asynchronous pipeline to leverage a limited third party virus scanning solution to scan and sanitize ~240 thousand files a day.
- Led team of 3 developers and 2 QAs that supported tooling used by 5 teams and 3 revenue generating products. Our collaborative efforts were instrumental in achieving and sustaining peak operational performance, driving business success and customer satisfaction.
- Demonstrated leadership by advocating for and leading the creation of custom Terraform providers to empower development teams to manage their IdAM resources while aligning with existing CI/CD practices. This replaced the existing DML workflow that forced the DBA team to be part of the pipeline, lowering the amount of support tickets they received by 60% and decreasing the error rate by 70%.

SENIOR SOFTWARE ENGINEER, BILLTRUST; HAMILTON, NJ — APRIL 2018 - SEPT 2020

- Designed and implemented IdAM infrastructure using .NET Core, MongoDB and MySQL, including authentication and authorization workflows that support ~800 requests per second.
- Communicated with Product and other stakeholders to define requirements and later work with the team to distill them into actionable stories.
- Designed and implemented highly scalable typeahead search solution with NodeJS and Elasticsearch that supports over 100 million documents with less than 100 [ms] response time.

BACKEND DEVELOPER, SOLOMID CORPORATION; LOS ANGELES, CA — AUG 2015 - AUG 2017

- Developed back office tooling to support management of seed data for user-facing sites.
- Re-engineered the Probuilds.net site (~250 million hits a month) from a PHP monolith into a NodeJS backend running in Heroku and a detached frontend just running a templating engine.
- Designed, developed and maintained public API for Champion.GG implemented in NodeJS and deployed in Heroku.

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SENIOR DEVELOPER; NEW YORK, NY — AUG 2014 - NOV 2015

- Maintained and updated a 5 9s of uptime report generation system that consumed data from Wufoo forms and emailed users results in a built-on-the-fly PDF.
- Implemented an API and chat system for Tinder-like site using NodeJS and websockets.
- Developed an API for fine art aggregation and management solution service. Designed Elasticsearch queries to support user workflows.

EDUCATION

Universidad Tecnica Federico Santa Maria, Valparaiso, Chile — Computer Science Engineering, 2010

TECHNOLOGIES & SKILLS

- C#, Python, Golang, Javascript
- API Design
- Document and relational Databases
- Terraform & Terragrunt
- CI/CD tooling through Jenkins and bash/python scripting
- AWS, most notably EC2, ECS, SNS and SQS

CERTIFICATIONS

- MongoDB Certified Developer, Associate Level LICENSE # 464-111-288
- AWS Certified Developer - Associate | Date of Certification: October 2020

REFERENCES

- Available upon request