Albert Hilazo Aguilera

A full-stack software engineer with a wide background of roles and environments; always with a strong interest in the related best practices, being able to work on all levels of an application and enabling growth of other team members. Currently focused on web development and setting path to team leadership.

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Programming languages

JavaScript · TypeScript · Node.js · Vue.js · React.js · Java · Spring Boot · PHP · Python · Pandas · Perl · HTML5 · CSS3 · Bash

Practices and methodologies

Test-Driven Development · Behavior-Driven Development · Pair Programming · Trunk-based Development · Continuous Integration · Continuous Delivery · SOLID Principles · Clean Architecture · Domain-Driven Design · Experimental Design · On-call Support · Service Levels · DevOps · Site Reliability Engineering · Infrastructure as Code · Observability

Professional Experience

Senior Consultant Developer, Thoughtworks

Technology consultancy. Software engineering.
Barcelona, Oct 2020 - Present

- Delivered projects and learned the domain for multiple industries including non-profit, energy, medical innovation and online marketplaces.
- Took on a wide range of roles and responsibilities. From full-stack development to on-call SRE, as Individual Contributor and Tech Lead or Engineering Manager.
- Led the technical direction of a 6-person team and encouraged the growth of its members, increasing involvement in backlog definition and reducing knowledge silos.
- Helped new and existing teams in the adoption of practices such as Pair Programming, Test-Driven Development (TDD), Trunk-based Development and Continuous Delivery.
- Built from scratch a scalable data processing platform and a visualization web tool, which handled data from IoT devices sending multiple datapoints per second and presented it for analysis aggregated at multiple scales.
- Developed customer-facing web features following an experimentation approach, using metrics and user interviews to validate hypotheses and guide efforts in feature development.
- Designed and developed a flexible workflow of data manipulation processes, which enabled adding and removing experimental features without impacting the user experience.

JavaScript, TypeScript, Node.js, Vue.js, React.js, Java, Spring Boot, Python, Pandas, AirFlow, AWS, AWS CDK, Terraform, Datadog

Consultant Developer, Thoughtworks

Technology consultancy. Software engineering.
Barcelona, Jan 2018 - Oct 2020

- Maintained infrastructure and covered on-call for 250 production services, then guided development teams to adopt DevOps and Observability practices in order to manage them on their own.
- Facilitated multiple workshops on how to define Service Level Objectives and identify alerting criticality for different services.
- Maintained platform infrastructure such as Kubernetes and Elasticsearch clusters for compute and logging purposes respectively, while identifying points of improvement and cost reduction.
- Built platform tooling to help development teams handle their AWS resources and Datadog monitoring using Infrastructure as Code.
- Built and published a mobile application using cryptographic protocols for low-scale electronic voting.
- Developed backend services integrating the components of a personal data protection platform built in partnership with multiple european companies.

JavaScript, TypeScript, React Native, Python, AWS, AWS CloudFormation, AWS CDK, Kubernetes, Elasticsearch, Datadog

Tools and technologies

AWS · Datadog · AWS CloudWatch · AWS CloudFormation · AWS CDK · Terraform · Ansible · Puppet · Git · Jenkins · GitHub Actions · Google Analytics · Hotjar · GraphQL · AWS AppSync · AWS EC2 · AWS Lambda · AWS ECS · Apache AirFlow · Docker · Kubernetes · MySQL · PostgreSQL · AWS DynamoDB · AWS Timestream · Elasticsearch

Education

Architecting on AWS
CAPSiDE AWS Training

Essentials of System Administration Course LFS201
Linux Foundation

Master's Degree in High Performance Web Programming
La Salle Barcelona

Engineer's Degree in Computer Engineering
La Salle Barcelona

Languages

Native
Spanish
Catalan

Professional proficiency
English

Beginner
Spanish Sign Language (LSE)

Software Engineer, CAPSiDE

Cloud infrastructure consultancy. Internal and product development.
Barcelona, Jan 2016 - Jan 2018

- Developed web products used both internally and by the company's clients to manage the deployment of multiple cloud infrastructure stacks and perform blue/green application deployments for both AWS and Azure.
- Developed internal web tooling that handled sales offers, request ticketing, time tracking and scheduling.
- Advocated for the adoption of software design concepts such as SOLID principles, design patterns, architectures and Domain-Driven Design.
- Promoted software quality and maintainability principles such as code readability, refactoring, extensive testing and Test-Driven Development.
- Performed internal trainings in order to introduce some of the previous concepts to the team.
- Defined a frontend code architecture that separates application and framework-coupled logic, allowing the application to easily adapt for the fast-changing JavaScript ecosystem.
- Optimized the development environments so they were easier to use, more automated and consistent with production.

Perl, Node.js, AngularJS, Vue.js, Elasticsearch, AWS, Azure, Ansible, Docker

Adjunct Lecturer, La Salle Campus

Engineering university. Computer Engineering department.
Barcelona, Oct 2015 - Feb 2016

- Introduced students to web development using HTML5, CSS3, JavaScript and PHP.
- Guided students in the setup and use of a development environment using Vagrant, Apache, MySQL and Git.

JavaScript, PHP, HTML5, CSS3, Git, Vagrant, Apache, MySQL

Teaching Assistant, La Salle Campus

Engineering university. Computer Engineering department.
Barcelona, Sep 2012 - Sep 2015

- Introduced students to web development using Apache, MySQL, PHP frameworks and version control.
- Guided and evaluated the development of a web application as part of their group project.
- Introduced students to the basics of computer programming using C language and the use of the Linux command-line.
- Participated in the drafting of subject materials.

JavaScript, PHP, HTML5, CSS3, C, Bash, Git, Apache, MySQL

Intern, T-Systems Iberia

IT services and consulting. Automation and tooling department.
Barcelona, May 2013 - Jun 2015

- Developed cross-browser internal web applications that implied a noticeable performance improvement in some of the company departments.
- Reduced the time needed to analyze the servers status and draft monthly reports on an estimation of 12 hours per month.
- Automated the installation of monitoring agents and managed monitoring and data integration tools.

JavaScript, PHP, Zend Framework, Bash, Pentaho, IBM Tivoli