



BIOMEDICAL ENGINEER,
FULLSTACK SOFTWARE DEVELOPER

DAVID TORRES

PROFILE

Biomedical engineer specialized in the development of full stack software and hardware solutions. Passionate about the implementation, learn and study of next-generation technologies for AI, open source software, Web Applications and IoT development.

TECHNICAL SKILLS

- Programming and design of JAVA FX, Spring Framework, cross-platform desktop applications.
- Backend development with Spring Boot, Full Stack development with React JS.
- Docker Container Registry, Github actions, Forgejo and K8S deploys.
- Microservice oriented applications with spring cloud suite and other technologies.
- Management of SLQ/ No SQL databases, local and AWS cloud oriented.
- Advanced Unix scripting and Linux server and cluster management.
- Mac, Windows and Linux User.
- Agentic development, skills, hooks, mcp's and context proper management in Claude for coding.

LANGUAGES

- Spanish – NATIVE
- English – C2

OTHER SKILLS

- Effective resilience in solving problems.
- Self-learning.
- Word and dialogue skills, sales.
- Quick and under pressure learner.

PROGRAMMING LANGUAGES

- Java (Spring, Micronaut).
- Shell Scripting (UNIX).
- C & Python.
- Javascript (React JS).
- CSS y HTML.

CONTACT

Mobile: +52 985 134 9157
davidfernandotorres07@gmail.com
Portfolio: portfolio.davidtorres.dev

David Fernando Torres Collí
Birth date: April 7, 1995

CERTIFICATIONS

AWS Certified Developer Associate
[F55A16B264414799801F14AE91817049](https://aws.amazon.com/certification/individuals/developer-associate/)



WORK EXPERIENCE

Point B + Lumston – Senior Java Developer

November 2024 - Current

Develop and re-design of AWS architecture, loan related full stack application. Create, maintain, debug and test Java 17/21 code with IntelliJ Idea. Perform deploys using Github Actions and Gitlab CI/CD pipelines. Autoscaled deployment for microservice architecture using AWS and Spring Cloud. Serverless hybrid approach, currently on k8s and full microservice migration. Backend development with full Spring Boot/Relational SQL application following design patterns. Agentic AI assistance work performance with Claude code, efficient delivery implementations with claude architecture patterns. Agile methodology workflow.

Sintesisys – Contractor Technical Lead – 3 month engagement

December 2025 - March 2026

Technical Lead brought in for a focused 3-month engagement to consolidate and deliver the MVP of a platform unifying multiple ad platform backends, leading 3 developers (1 frontend, 2 backend) plus an independent QA. Reverse-engineered legacy APIs using Reqable as a proxy interceptor and built a Spring Boot service architecture exposing each ad platform through its own service bean, routed via a header-based unified API and consumed by a new Angular frontend. Implemented CI/CD with GitHub Actions, deployed dev on AWS EC2 and on-prem production on Kubernetes with autoscaling APIs and scheduled jobs. Integrated Prometheus and Grafana for Spring Boot observability and metrics.

Goldman Sachs (Infosys) – Java Application – Production Support Engineer/Automation Developer

April 2023 - November 2024

Maintenance, Improvement and Debugging of cloud application and distributed system using Java 21, Spring boot, Python, RabbitMQ, SQL Databases, C++ based OOP language, AWS microservices architecture oriented in large scale production environment. Automation and enhancements with advanced UNIX scripting. Remote L2/L3 support in production management for Market Risk bank application.

DHATEK Wireless & Medical Innovation – Contractor Software Developer

October 2019 - April 2023

Development of cross-platform applications with Java. Development of Backend services Spring Boot and Spring Framework, JPA, Hibernate, Node and Python. Docker container deployments on premise, REST API, SQL and No SQL databases. Development from scratch for medical imaging and patient record application. Custom software or hardware IoT solutions from scratch for medical applications.

SIYS MEDICAL – Java Developer

June 2017 - August 2019

Development of Java 8, JavaFx and Spring Framework applications for the health care domain. Backend and desktop applications with Spring MVC, embedded applications using C and UNIX. Quick prototyping using python Fast API.

EDUCATION

Universidad Modelo – P. ID 13213220

2013 – 2018, Mérida, Yucatán

Biomedical Engineering

Thesis Project: Prototype of low-cost Ventilation Simulator for the evaluation of competences using Java, JavaFX, UNIX scripting, python Fast API and multiple network protocols.

COURSES

- Certificate of completion for Kubernetes for the Absolute Beginners – Hands-on – UDEMY – 2026
 - Certificate of completion for Claude Code – The Practical Guide – UDEMY – 2026
 - Certificate of completion for SonarQube – The Complete Guide – UDEMY – 2026
 - Certificate of completion for React – The Complete Guide 2025 (incl. Next.js, Redux) – UDEMY – 2025
 - Certificate of completion for The Complete Apache Kafka Practical Guide – UDEMY – 2025
 - Certificate of completion for Kafka for absolutely beginners – UDEMY – 2025
 - Certificate of completion for Spring REST(Overall Refresh) – Lex Academy – 2024
 - Certificate of completion for Selenium WebDriver: Selenium Automation Testing with Java – Udemy – 2023
 - Certificate of completion for Advanced UNIX scripting – Lex Academy – 2023
 - Data Structures and Algorithms: Deep Dive Using Java – LP Academy – 2023
 - Certificate of completion for Database Design and Implementation – AMIGOS CODE – 2023.
 - Certificate of completion for Spring-boot Master Class – AMIGOS CODE – 2023.
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WORKSHOPS, CONFERENCES, CONGRESS

- Conference given "Technology Revolutionizing Medical Teaching– Mechanical Ventilation Simulators" – Biomedical engineering conference, Universidad Modelo – November 2022
- Workshop given "Biomedical Engineering Applied to Gynecology – Colposcopy Equipment" – Biomedical engineering conference, Universidad Modelo – November 2022
- Participant in "Screw Up Nights" – Biomedical engineering conference, Universidad Modelo – November 2022
- Published article DESIGN OF A LOW-COST TECHNOLOGICAL PROTOTYPE FOR ASSESSMENT OF AIRWAY NURSING COMPETENCES ADVANCED – Editorial International Center for Territorial Marketing for Education and Development CIMTED 2021
- Participation INNOVAHEALTH CHALLENGE – 8th Latin American Congress of Biomedical Engineering and 42nd National Congress of Biomedical Engineering – Cancun 2019.
- Assistant – 8th Latin American Congress of Biomedical Engineering and 42nd National Congress of Biomedical Engineering – Cancun 2019.
- Assistant – XL National Congress of Biomedical Engineering – Monterrey 2017.
- Assistant – Engineering and Innovation Congress 2017 – Universidad Modelo 2017.