

# Franklin Enmanuel Magallanes Pinargote

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## ABOUT ME

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Computer science engineer, top 7% graduates of my graduating class of 2022. Member of CERN's Summer Students program in 2022. Constantly learning and reviewing new web development technologies Frontend, Backend, DevOps and state of the art in AI areas such as image processing.

## SKILLS

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### Full Stack

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**Testing:** Jest, Mocha, Chai, Vitest

**Frontend:** React, Angular, Svelte (SvelteKit), React Native, Flutter, Astro, RemixJS, Redux, CSS, SCSS

**Backend:** NodeJS, Bun, ExpressJS, NestJS, Django, FastAPI, Flask, JWT, Spring Boot, Middlewares

**Databases:** MongoDB, MySQL, Firebase, PostgreSQL, Oracle SQL

**DevOps:** Docker, Kubernetes, Github Action, Gitlab Runner, AWS, Azure, GCP, Serverless, Terraform

### Programming languages

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Java, Python, C#, TypeScript, JavaScript, Dart

### Languages

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Spanish (native), English (C2)

## WORK EXPERIENCE

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5 DEC 2022 – CURRENT Guayaquil, Ecuador

**FULLSTACK DEVELOPER GALILEO**

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- Development of a cross-platform app based on React with Cordova and React Native, on Typescript to be distributed on iOS and Android devices.
- Component status management with Redux-Thunks or Sagas and lifecycle with hooks to Componentes memoization.
- Creation and maintenance of pipelines in Azure to compile bundles for Android, iOS, and war files.
- Creation and modification of endpoints on Java backend with Spring Boot for banking business. Also, design and management of microservices modularity and continuous integration in complex projects.
- Design and implementation of authentication flows focused on data protection against vulnerability attacks, implementing exchange token techniques, and data protection against enumeration due to credential errors.
- Design of unit tests with Junit for new endpoints and changes in business logic.
- Implementation and customization of native Java plugins for iOS and Android to be used from React with Typescript. Ej plugins: Background execution, Biometry API (fingerprint API and FaceID), Contacts API.
- Created and maintained docker containers for the deployment and distribution of microservices images.
- Oracle SQL database administration according to business logic requirements. Focusing on query optimization and data integrity in the transactions.

20 OCT 2020 – 24 NOV 2022 Guayaquil, Ecuador

**SOFTWARE DEVELOPER SHIPPIFY**

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- Implementation of new web components applications on React and Angular with JavaScript/Typescript and styling with SCSS following SOLID principles and good coding practices and test-driven development (Mocha and Jest).
- Reusable Component Development: Creation of modular and reusable components using custom directives and encapsulation best practices.
- Global State Management: Implementation of solutions to manage the global state of the application using libraries such as NgRx or injectable services for Angular and Context API, Zustand, Redux (Thunks and Sagas) for React.
- Routing and Navigation: Advanced routing configuration with Angular Router and React router, handling nested routes, parameters, and lazy loading.
- Authentication and Authorization: Implementation of authentication flows, JWT token handling, route saving, and role-based access policies and protected routes.
- Management lifecycle with hooks to make optimizations on updated components memoization components.
- Use of Micro-frontend architecture to load different react applications on demand and management of custom UI-Kit for component styling and UI-Sdk for reuse logic across micro frontends.
- Management endpoint to new requests for business logic in ExpressJS and NestJS running server dockerized. Middleware for authorization, validation, and sanitation schemas, fetch data from Redis, MySQL, or Firebase, transform data, and retrieve data to the web app.

- Configuration of API Gateway, Lambdas dockerized, and optimization of SQL queries in order to be able to perform large data loads.
- Implementation of CD/CI using Serverless and Terraform for deployment on AWS and integrations with SonarQube on GitHub pull requests to ensure code quality.

## EDUCATION AND TRAINING

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### CERTIFICATIONS

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- ASP.Net 7 MVC: [certification](#)
- Spring Boot Microservices: [certification](#)
- Advanced Design Patterns: [certification](#)
- Microservices Design patterns: [certification](#)

4 JUL 2022 – 26 AUG 2022 Geneva, Switzerland

**SUMMER STUDENT** CERN

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Creation of workflow in GitHub Actions for automating deployment new changes to documentation content. Finally, deploy a web server with NGINX for accessing new static documentation files documentation and switch between versions.

Technologies used: NGINX, Python, Html2Rest, ReadTheDocs, Github Actions (on-premise).

Link <https://drive.google.com/file/d/1o9XIYD6C6Z7If6kDLsNTm5aZff-oRdvX/view>

2 JUN 2017 – 20 AUG 2022 Guayaquil, Ecuador

**BACHELOR IN COMPUTER SCIENCE** ESPOL

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We present a pipeline methodology that make segmentation for substance nigra on MRI T2-weighted images using 3D Convolutions and Tranformers.

**Thesis** Subthalamic Nucleus and Substantia Nigra automatic segmentation using convolutional segmentation transformers (Conv-SeTr)

### VOLUNTEERING

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Guayaquil

**TAWS Member**

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Research Group of Web, Mobile and Data Science Technologies at ESPOL. Participation in the organization of WiDS (Women in Data Science) on 2020, 2021, and 2022.

Guayaquil

**Teacher Assistant**

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Worked as a teacher assistant in Object Oriented Programming course. Design and review partial tests, exams and projects for students. Give assistant ships to students to clarify their doubts on extra course parallel to main course.

### PROJECTS

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1 JUN 2024 – CURRENT

**Budgetfy mobile**

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This is the mobile version of the web app. This has the same feature as Budgets and more like define Charges. See more [here](#).

Tech used: React Native, Expo, Firebase Crashlytics, TypeScript, CI/CD (build and submit app)