


Joaquín Badillo Granillo


Computer Science Student and Enthusiast

I'm a lifelong learner interested in making an impact through software implementation and deployment.

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 [joaquinbadillo.github.io](#) (Portfolio)

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Education

B.S. in Computer Science and Technology

August 2021 - June 2025 *ITESM*

Relevant Courses:

- Analysis and Design of Advanced Algorithms
- Integration of Computer Security in Networks and Software Systems
- Software Construction and Decision Making
- Data Structures and Fundamental Algorithms

High School (IB Diploma Graduate)

August 2018 - May 2021 *ITESM*

Work Experience

Consultant and Microservice Developer Intern

October 2023 - January 2024 *IBM*

Functions/Tasks:

- Develop RESTful APIs for microservices using Spring Boot, Hibernate and Maven.
- Add fault tolerance with Resilience4j and service discovery using Spring Cloud Eureka.
- Test and containerize microservices for an ecommerce project using JUnit, Mockito, JaCoCo and Docker.

Software and Data Engineer Intern

August 2022 - October 2023 *ITESM (Remote)*

Functions/Tasks:

- Collaborate with a team of urbanism researchers studying sustainability in cities across Mexico.
- Collaborate on the design and implementation of a frontend using React, TypeScript and D3.
- Develop an Express JS API to fetch and serve data stored in a PostgreSQL server.

Hackathons

Microsoft Student Hackathon

October 2021 1st Place Winner (Education)

- Design and plan interactive Computer Science lessons.
- Implement coding challenges to follow the lessons in .NET Interactive Notebooks using C# and Journey.

 [GitHub](#)


 [Badge](#)

 .NET Interactive Notebooks

Languages

Spanish	Native
English	Fluent
German	Basic

Technologies


 Git

 C/C++

 JavaScript

 TypeScript

 Python

 C#

 Java

 Elixir

 Golang

 MySQL

 PostgreSQL

 MongoDB

 Linux

 Docker

 React

 Astro

Projects

Tickets.edu

August 2023 - November 2023

- Implement authentication middleware using JSON WebTokens.
- Create different roles to modify user views and permissions.
- Create a React.js frontend to consume the API.

 Client

 Backend

 React.js

 MongoDB

Conjectured (Blog)

December 2022 - Present

- Created a full stack project using React and Next.
- Used SSR to fetch metadata from PostgreSQL and posts in buckets.

 Website

 GitHub

 Next.js

 PostgreSQL

Break Into Valhalla

March 2023 - June 2023

- Develop, deploy and connect an Express.js API to Unity.
- Implement procedural generation and character selection in C#.

 Website

 GitHub

 NodeJS

 C#

Ctrl Alt Tec (Student Group)

August 2019 - Present

Certifications

Intermediate PostgreSQL

University of Michigan July 2023

Database Design and Basic SQL in PostgreSQL

University of Michigan June 2023

Mathematics for Machine Learning: Multivariate Calculus

Imperial College London December 2021

Mathematics for Machine Learning: Linear Algebra

Imperial College London November 2021

Achievements

Academic Scholarship for College

(April 2021 - Present)

Scholarship to study college at Tec de Monterrey awarded for my academic performance

Academic Scholarship for High School

(May 2018 - May 2021)

Scholarship to study high school at Tec de Monterrey awarded for my academic performance