

# GUILLERMO BERNAL

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## SUMMARY

Software Developer with hands-on experience in innovative technologies, including artificial intelligence, computer vision, and speech recognition, alongside a solid foundation in machine learning and data science. Proficient in Python, with project experience ranging from system development using C++ and Rust to implementing blockchain solutions in Java. Additionally, skilled in modern web technologies (React, TypeScript, Next.js, MongoDB, and SQL) with a strong focus on UX/UI to create high-quality digital solutions. As a dedicated student passionate about continuous learning and solving technical challenges, I quickly adapt to diverse environments and projects.

## EDUCATION

### B.S. in Computer Science & Engineering

October 2024 - Present

National University of Distance Education (UNED), Spain

### Higher Technician in Cross-Platform Application Development

September 2023 - June 2025

Nuestra Señora del Pilar Salesianos, Zaragoza, Spain

Skills in Git. Proficient in Angular, React, Tailwind and Bootstrap for front-end development.

Experienced in SQL, MongoDB, SpringBoot, Java, .NET and C# for back-end development.

Overall GPA: 9.7/10

### DeepLearning Specialization

March 2024

DeepLearning.AI (via Coursera)

Gained a solid foundation in Deep Learning concepts and techniques.

Built and trained Convolutional Neural Networks, Recurrent Neural Networks, LSTMs, and Transformers.

Developed real-world solutions using Python and TensorFlow for tasks such as speech recognition, music synthesis, chatbots, machine translation, and NLP.

### Certified Professional in Web Application Technologies

February 2023 - July 2023

Efor Internet y Tecnología, Spain

Proficient in PHP, JavaScript, SQL and TypeScript.

Overall GPA: 10/10

### User Experience Specialization

December 2023 - March 2024

Google Specialization (via Coursera)

Proficient in UX design fundamentals, including research, wireframing, and prototyping with Figma.

Designed dynamic user interfaces (UI) and improved usability for web applications.

## EXPERIENCE

### Tech Trainee

March 2025 - Present

Numérico

Zaragoza, Spain

- Leveraged Three.js to incorporate dynamic 3D elements into the frontend, enhancing visual storytelling and user engagement.
- Developed advanced, custom CSS solutions to achieve precise visual designs and interactions
- Implemented multilingual support across the application using internationalization (i18n) libraries and dynamic routing for seamless user experience in multiple languages.
- Created and maintained detailed documentation for reusable UI components in a large-scale Next.js project, improving team onboarding and development consistency.

## Web Developer

*Freelancer*

September 2024 - Present

*Remote*

- Designed and developed responsive, high-performance websites and web applications using modern frameworks like React, Next.js, and Tailwind CSS.
- Collaborated with clients to gather requirements, propose solutions, and deliver projects on time and within budget.
- Implemented best practices in UI/UX design, accessibility, and cross-browser compatibility.
- Cultivated problem-solving skills by troubleshooting complex issues and identifying efficient, scalable solutions with minimal supervision.
- Developed self-sufficiency in all aspects of project delivery, including requirement analysis, design, coding, testing, and deployment.

## Web Developer Intern

*Fortec, Formación y Tecnología*

June 2024 - July 2024

*Zaragoza, Spain*

- Developed and optimized PHP scripts to analyze, sanitize, and improve database performance.
- Designed and executed complex SQL queries, including stored procedures and functions, to streamline data processing and reporting.
- Created entity-relationship diagrams (ERDs) to document and enhance understanding of existing databases, facilitating onboarding for new team members.

## ADDITIONAL INFORMATION

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- Winner of the AWS DeepRacer Championship in Aragón, 2nd place in the AWS Jam Aragón, 3rd place in the AWS National Jam, and finalist in the AWS DeepRacer National Championship.
- Native Spanish speaker, fluent in English, intermediate proficiency in German, and basic knowledge of Japanese.
- Creative mindset with a strong interest in art and design. Skilled in multiple musical instruments.
- Volunteer experience in various fields, contributing to different initiatives and community projects.