

Chris M. Perez

Software Developer | B.Sc.
in Computer Science



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Education

Bachelor of Science in Computer Science
Interamerican University,
Metropolitan Campus | Graduation 2019

Skills

Languages: JavaScript, TypeScript, Python, SQL, C++
Backend: Node.js, Express.js, Spring Boot

Frontend: React.js, Next.js, React Native, Vue.js

Version Control: Git

Databases: MySQL, MongoDB

Deployment: Vercel, AWS SDK

Testing: Vitest, Jest, JUnit, Postman

API Development: RESTful APIs, MVC design pattern

3D Visualization: Three.js, WebGL, React Three Fiber, Deck.gl, Mapbox GL, Gaussian Splatting, Point Cloud Processing

Agile Methodology: SCRUM

Operating Systems: macOS, Windows, Linux

Summary

Results-driven software developer with strong expertise in both front-end and back-end development. Adept at learning new technologies quickly and applying them to solve complex problems. Skilled in creating scalable, high-performance applications with a focus on user experience and clean, maintainable code. Proven ability to collaborate effectively in cross-functional teams, delivering innovative solutions under pressure while meeting deadlines and business objectives.

Work Experience

2025 - 2026	Software Developer	MeshMap
	Developing advanced 3D visualization features and interactive pipelines for MeshMap, enabling real-time exploration of cloud-native infrastructure.	
	<ul style="list-style-type: none">Implement interactive 3D pipelines to render Gaussian Splatting models, PLY files, and point clouds efficiently using React Three Fiber, Three.js, and WebGL.Build scalable front-end applications with Next.js, React.js, and React Native, integrating APIs, Prisma, and PostgreSQL for data management.Integrate geospatial layers using Deck.gl and Mapbox GL to enhance topology and infrastructure mapping.Leverage AWS SDK to manage cloud storage, deployments, and asset delivery for high-performance applications.	
2022-2024	Lead Developer	Techno&Logic Corp
	Directed development of VoyTuristeando, a tourism app for Puerto Rico on web, Android, and iOS.	
	<ul style="list-style-type: none">Led both back-end and front-end development, delivering a seamless, robust user experience.Coordinated with design and cross-functional teams to align technical features with user-centered goals.Optimized app performance, supporting 1,000 to 5,000 daily users.Project URL: https://app.voyturisteando.com/Tech Stack: Next.js, React Native, PostgreSQL, Strapi	
2021 - 2022	Front-End Developer	Digheontech
	Contributed to front-end development for Travelsafe, a COVID-19 travel tracking app developed by the government of Puerto Rico to monitor the COVID-19 situation, with over 20,000 daily users.	
	<ul style="list-style-type: none">Implemented responsive UI components and optimized user experience to ensure accessibility and performance on all devices.Tech Stack: ReactJS, Redux, JavaScript, HTML5, CSS3	
2020 - 2021	Developer	Puerto Rico Science, Technology & Research Trust
	Built a virtual laboratory web application for vector surveillance, monitoring Zika, Chikungunya, and Dengue in Puerto Rico.	
	<ul style="list-style-type: none">Developed both front-end and back-end for real-time monitoring, surveillance, and mosquito identification.Managed SQL Server and PostgreSQL databases for secure data handling.Project URL: https://lab.prvectorcontrol.org/Tech Stack: React, Node.js, PostgreSQL, SQL Server	
2018	Junior Developer	CINCO Engineering
	Developed a Quality Risk Management app for life sciences.	
	<ul style="list-style-type: none">Focused on MEAN stack, database design, and user authentication.Tech Stack: MongoDB, Express.js, Angular, Node.js	
2018	Software Tester	Mucaroo Inc.
	Conducted software testing to ensure quality and functionality.	
	<ul style="list-style-type: none">Focused on API, UI, performance testing.Tools: Postman, JUnit, Mocha.js.	

Research and Projects

2016 - 2017	Junior Developer (Bioinformatics)	Medical Science Campus, UPR
	Researched work in the area of bioinformatics constructing, combining, optimizing, and searching finite-state transducers weighted.	
	<ul style="list-style-type: none">Tools: pyfst (Python), OpenFst (C++)Environment: Linux	

Achievements

2017

Codetrotters Scholarship

Full Stack Web Development, Mentored by Jonathan Agosto Cruz

- Tech Stack: JavaScript, Express.js, and Node.js

References

Dr. Abiel Roche Lima

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Medical Science Campus, UPR