Felipe Moreira Salas, M.S.

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BIM Software Developer | Construction Specialist | Civil Engineer

Versatile Software Developer with a strong foundation in construction management and expertise in Building Information Modeling (BIM). A proactive problem solver, quick to learn, and capable of driving innovation through web applications development. Skilled in JavaScript/TypeScript, Python and SQL and tools such as Vue.js, React.js, Tailwind, and That Open Engine. Backed by a proven track record in the construction industry, excelling in contract management, quality control, and team leadership. Fluent in English, Spanish, and Portuguese. Eager to contribute my skills to a forward-thinking company, optimizing processes and enhancing operational efficiency.

EDUCATION

Master BIM Software Developer
That Open Company   Sep 2024

BIM A+ European Master in Building Information Modelling
University of Ljubljana, Slovenia & University of Minho, Portugal   Sep 2023

Graduation project: AR-enhanced collaborative environment for Facility Management supported by OpenBIM

Bachelor's Degree in Civil Engineering with Specialization
Universidad de Costa Rica   Jan 2021

Graduation project: Hydraulic testing in Costa Rica's National Laboratory of Engineering

WORK EXPERIENCE

BIM Software Developer - Remote • Full-time   Jan 2024 - Aug 2024
APOGEA Consulting • Malaga, Spain

- Identified and corrected errors in existing BIM applications, ensuring software integrity and optimizing user experience.
- Development of BIM applications from scratch, using technologies like Vue.js and Tailwind CSS to create intuitive and high-performance interfaces.
- Collaborator in the development team led by Antonio Gonzales, contributing to the design and implementation of new tools for That Open Engine.
- Responsible for implementing the latest functionalities and techniques learned during the BIM Software Developer Master program, continuously enhancing the quality and innovation of developed products.
- Communicator and active collaborator in remote teams, participating in meetings and discussions to share ideas, solve problems, and improve the workflow of the BIM development team.

Construction Specialist - Remote • Full-time   Feb 2022 - Sep 2022
Amherst - MainStreet Renewal • Heredia, Costa Rica

- Managed vendor contracts for the Dallas, Nashville, and Salt Lake City markets, ensuring smooth operations and timely project delivery.
- Successfully adjusted budgets and updated contracts for 10+ weekly projects, maintaining direct communication with a diverse network of 40+ vendors.
- Gained valuable experience in multitasking and maintaining composure while resolving escalated construction management issues, ensuring project continuity and client satisfaction.

- Developed strong remote working skills, effectively collaborating with the team and maintaining high productivity levels.

Civil Project Engineer • Full-time   Apr 2021 - Jan 2022
CasaMax Inmobiliaria • San Jose, Costa Rica

- Oversaw the construction process, closure, and handover of multiple condominium projects, ensuring on-time completion and client satisfaction.
- Conducted thorough quality inspections on various structures, including houses, swimming pools, clubhouses, treatment plants, lag ponds, retaining walls, fences, roads, and underground nettings to ensure compliance with rainwater, sanitary, and drinking water management standards.
- Managed 10+ contracts weekly, closely monitoring progress and promptly addressing any arrears.
- Acquired valuable skills in inspection, personnel management, quality control, and customer service, contributing to project success.
- Demonstrated effective conflict resolution skills, fostering a productive work environment and resolving issues promptly.

PROJECTS

Master Project: Web-based Application to Manage BIM Projects
Master BIM Software Developer

Developed a comprehensive web application to manage projects and teams using React components and a Firebase database. Integrated an IFC viewer using the That Open Engine library to interact with building models and project data in real-time.

Thesis: AR-enhanced collaborative environment for Facility Management supported by OpenBIM
BIM A+ European Master

Created an AR-based application to integrate BIM with AR, enhancing collaboration and productivity in construction by leveraging WebXR with IFC.

CERTIFICATIONS

React.js Essential Training by Eve Porcello

SQL Essential Training by Walter Shields

Portuguese Language - Levels A1 & A2 by PortuguêsAlia

SKILLS

- **Programming Skills :** JavaScript/TypeScript, Python, SQL, React.js, Vue.js, Three.js, That Open Engine
- **BIM/Construction Skills:** AutoCAD, Revit, Dynamo, MS Project, Navisworks