

ORLANDO SANTOS

BIM DEVELOPER

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[LinkedIn](#) • [MyWebsite](#) • [GitHub](#)

SKILLS

ARCHITECTURE: Revit Autodesk, Advanced Revit Families, Autodesk Construction Cloud (ACC), BIM 360, AutoCAD, Revit API, PyRevit, PyRevit scripts, Ideate Explorer, Clarity, DiRoots, NavisWorks, Adobe Photoshop, Adobe InDesign, Blue-beam, Microsoft Suite

DEVELOPER: Iron Python, Typescript, Javascript, Python, HTML, CSS, .Net, React Native, React, Expo Go, Tailwind, Bootstrap

DEVELOPMENT PROJECTS

PyRevit Plug In

- Developed a custom plugin using IronPython, .NET APIs, and the pyRevit framework
- Consolidated useful scripts from various pyRevit extensions into a unified, office-specific toolset
- Created original scripts to automate repetitive Revit workflows
- Enhanced team efficiency through automation of BIM tasks and user-friendly interface design
- Used Visual Studio for script development and debugging within the Revit API
- Built and tested with Expo Go for streamlined mobile development and testing
- Employed Git for version control and collaborative plugin development
- Assisted IT updates across teams through the pyRevit extension deployment model
- Continually iterated on tools based on user feedback from project teams

EDUCATION

ACTUALIZE CODING BOOTCAMP | CERTIFICATE IN FULL STACK WEB DEVELOPMENT

Jul 2023 - Oct 2023

A four-month full-stack web development bootcamp. Core technologies included Javascript, Ruby, Rails, and React.js. Special emphasis on API-driven development, version control with Git, professional tooling, team collaboration, and continual learning.

UNIVERSITY OF SAN FRANCISCO | BACHELOR OF ARTS IN ARCHITECTURE AND COMMUNITY DESIGN

2014

Coursework integrated conceptual design, site planning, and critical thinking with hands-on studio work. Gained experience analyzing social, cultural, and political forces shaping the built environment, and developed visual, verbal, and written communication skills. Program focused on using design as a tool for positive change, with exposure to urban planning, landscape design, and global community development.

EXPERIENCE

A-FRAME: SURF FORECAST

Jan 2024 - Current

FOUNDER AND DEVELOPER

- Created full visual identity, including logo, typography, color palette, and layout
- Prioritized user clarity by simplifying complex surf data into digestible visuals
- Built interactive tide and swell charts using Skia and D3.js optimized for mobile UX
- Developed the app using React Native, TypeScript, and a Python backend
- Integrated Apple Maps, API data, and custom components like bottom sheets
- Managed data with PostgreSQL and Postico, deployed with Heroku
- Developed a dynamic rating system that adjusts based on wind and swell direction/strength
- Used Git for version control and collaborative development workflows

BDE ARCHITECTS

April 2024 - Current

BIM SPECIALIST

- Developed custom Revit plugins using IronPython and pyRevit to streamline modeling workflows
- Partnered with IT to roll out plugins office-wide, ensuring compatibility and performance
- Collaborated directly with architecture staff to gather feedback and identify automation needs
- Led efforts to expand and organize the Revit Family Library, prioritizing usability and visual consistency
- Supported interior design workflows, with a focus on multi-family residential projects
- Provided cross-team support and training, helping teams adopt tools more effectively
- Maintained ACC models and coordinated project data across departments

DES ARCHITECTS + ENGINEERS

Jan 2017 - Jun 2023

LEAD DRAFTER | BIM COORDINATOR

Jan 2020

- Created and maintained Revit models for core & shell commercial buildings up to LOD 350
- Led QC for Revit families, templates, and plug-ins across Architecture, Interiors, and Structural teams
- Delivered monthly internal Revit training sessions to a 150+ person office
- Converted as-builts into Revit from blueprints, AutoCAD, and SketchUp sources
- Coordinated with MEP/Civil consultants to ensure accurate model integration
- Performed MEP clash detection using Navisworks, flagging and resolving coordination issues
- Managed BIM 360 worksharing and supported technical troubleshooting across offices

DESIGNER

Jan 2017

- Design multi-page layouts for city/clients showing Architectural design intent
- Collaborate with clients to establish a design direction
- Directly oversaw the renderings produced by the graphics team
- Sketch, brainstorm and critique with design team

CSDA DESIGN GROUP

Jun 2014 - Dec 2016

DESIGNER

- Research and implement add-ins for Revit users
- Generate 3-D building from illustrations and concepts