JORGE RAMIREZ - RESUME

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EXPERIENCE

NV5 | AXIMGEO – GIS Applications Developer

Nov 2021 – Present

Arlington National Cemetery Team
- Designed the end-to-end workflow for the new COP (Common Operating Picture) Maps feature, creating wireframes and defining user interactions to replace the team's manual PowerPoint mapping process.
- Built a React/MUI gallery and implemented .NET/EF Core endpoints to manage map metadata and persist COP map state to the database.
- Engineered full save/load capabilities for COP maps, serializing ESRI JS SDK layers, shapes, icons, and metadata to the database and restoring saved map states when users reopened a map.
- Developed a custom Lexical WYSIWYG editor and extended Lexical with custom nodes for serializing embedded SVG symbols through backend APIs.
- Migrated DigSlip PDF generation process to the front end using a JavaScript PDF library.
- Developed new functionality using the Backone JavaScript framework for the CMS app.
- Enhanced back-end functionality of a .NET API written in C#, resolving bugs and adding new features as needed.

Explosives Safety Siting Team
- Implemented CAC-based authentication and JWT session validation in a .NET backend for a secure DoD web application.
- Built the new-user access request form using Angular Forms, incorporating existing validation logic and auto-populating user identity fields from the backend.
- Built a .NET DI service integrating AWS SES to send automated onboarding notifications

Georeadiness Team
- Streamlined deployment processes by standardizing Jenkins pipelines for Python repositories.
- Improved package management by migrating NPM and PIP repositories to Azure Artifacts.
- Maintained and added new features to a large Python script automating the process of adding custom widgets to servers with an ArcGIS Portal install.
- Enhanced current JavaScript repositories by increasing test coverage using JEST and React Testing Library.

General Services Administration
- Enhanced ESRI Web AppBuilder application by creating custom widgets using the Dojo toolkit library.
- Collaborated with a solution engineer to enhance web map functionality and introduce new features.

TSG Solutions – GIS Web Developer

Dec 2019 – Nov 2021

ANG GeoBase
- Managed a Web Map Viewer hosting GIS data for the Air National Guard using IIS Server, ArcGIS Enterprise Server, and MySQL.
- Developed new features, including a customized Print Widget and an S-File tool for floor plan navigation.
- Created and published new map services on ArcGIS Enterprise Server.
- Developed Python scripts using ArcPy for Real Property Dataset updates.
- Generated standardized geospatial data reports for Air National Guard installations using Python.

HORUS Technology Solutions – Front End Developer

June 2018 – Sept 2019
- Developed forms for Grants.gov using Node.js, Express.js, MongoDB, jQuery, and Knockout.js.
- Deployed code updates to Development and Testing environments using Linux scripts and GitHub.
- Worked with QA testers to streamline communication between developers and testers.

EDUCATION

University of Maryland, College Park

B.S. in Geographical Information Systems & Computer Cartography, Spring 2018

CERTIFICATIONS & TECHNICAL SKILLS

- AWS Cloud Practitioner (Validation: 8B5J0TX1EBVQ1Y31)
- Certified ScrumMaster (CSM)
- Security+ (COMP001021617199)

Programming Languages

- JavaScript, TypeScript, C#, Python, SQL, HTML5, CSS

Frameworks & Libraries

- React, Angular, EF Core, Backbone.js, Knockout.js, MUI, JEST, React Testing Library, Lexical

Tools & Technologies

- .NET, ASP.NET, ESRI ArcGIS JS SDK, ESRI Web AppBuilder, PostgreSQL, ArcMap, ArcGIS Enterprise Server, ArcPy, AWS SES, Jenkins, Azure