Xavier Paez

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Senior Software Engineer specializing in large-scale medical imaging platforms, telemedicine systems, and cloud file infrastructure supporting thousands of clinical workflows daily.

WORK EXPERIENCE

Senior Software Engineer, Memorial Sloan Kettering Cancer Center
External MD Portal (Pathology Image Transfer Platform)
Oct 2020 - Present

- Led development of a secure React + Next.js platform enabling external providers to upload and share multi-gigabyte pathology imaging datasets imaging for second opinions and treatment planning.
- Architected multipart upload workflows across S3 and Azure Blob Storage, implementing custom queuing and concurrency logic to ensure reliable large-file transfers of 10–50GB datasets per session.
- Designed fault-tolerant upload retry mechanisms to reduce transfer failures and improve performance for multi-gigabyte image sets.
- Partnered with clinicians and infrastructure teams to ensure HIPAA-compliant data handling and secure external access.

Telemedicine Platform
Sep 2017 - Jul 2020

- Lead frontend developer for a React-based telemedicine platform supporting 2,000+ daily patient visits.
- Developed real-time diagnostic tooling used by help desk teams to monitor live sessions, reducing average incident response time by ~35% and enabling faster resolution during patient consultations.
- Built a reusable React design system adopted across multiple internal applications, improving development velocity and UI consistency.

Software Engineer, Globus Medical (via Nemaris, Inc. merge)

- Developed C++/Qt/QML frontend features for Surgimap surgical planning software used by spine surgeons worldwide for pre-operative simulation and parameter analysis.
- Improved DICOM communication workflows between planning software and PACS systems, increasing reliability of medical image transmission and storage workflows.
- Collaborated on interface layers between planning software and robotic arm control system

EDUCATION

B.S Software Engineering, Instituto Tecnológico de Santo Domingo
Magna Cum Laude
Aug 2012- Jun 2016

SKILLS

Frontend & Web: TypeScript, JavaScript, React, Next.js, Expo, Tailwind CSS, HTML5, CSS3
Backend & APIs: Node.js, REST APIs, GraphQL, React Query (SWR), SQL
Cloud & Infrastructure: S3, Azure Blob Storage, Vercel
Real-Time & Media: Twilio, ACS
Testing & Practices: Jest, TDD, Agile
Systems & Native: C++, C#, Python, Qt, QML