

Brian M. Palmer

brianmorganpalmer.com | brian.morgan.palmer@gmail.com | brianmorganpalmer.com

Enterprise FHIR Architect

Experienced technology leader specializing in designing scalable architectures for seamless data exchange. Expertise in FHIR, government compliance, SMART on FHIR, REST APIs, data governance, population health, and health analytics.

Core Competencies

- **FHIR & Healthcare Interoperability:** HL7 FHIR, USCDI, US Core IG, ONC CURES Act Compliance
 - **Cloud Architecture:** AWS, Azure, GCP, API Gateway, Lambda, Cognito, AWS HealthLake, Event-Driven
 - **Enterprise & Solution Architecture:** Business and IT Alignment, Capability-Based Planning, Microservices
 - **Healthcare Data Exchange:** SMART on FHIR, Bulk Data Exchange, HL7 Integration, ETL/ELT Pipelines
 - **Leadership & Strategy:** Agile & SAFe, Stakeholder Engagement, Governance
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Education

- **BU School of Medicine** | Graduate Certificate in Biotechnology, 2016
 - **Boston University** | M.S. in Computer Information Systems, 2002
 - **University of New Hampshire** | B.S. in Computer Science, 1988
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Professional Experience

South Carolina Department of Health & Human Services

Product Owner / Cloud Architect | 2024 – Present

- Architected and deployed a FHIR-based interoperability solution leveraging AWS HealthLake.
- Designed FHIR data ingestion and transformation workflows using AWS Lambda.
- Developed API layer for secure and scalable data access using native AWS services.
- Implemented bulk data exchange strategy using S3 for large-scale healthcare datasets.
- Ensured HIPAA & ONC CURES Act compliance through secure authentication and audit logging.

Sentara & Optima Health / Wellmark Blue Cross Blue Shield (Contracts)
Enterprise FHIR Architect | 2020 – 2023

- Led a multidisciplinary team (DevOps, API Developers, UX, Governance) to implement FHIR-based APIs.
- Developed "Signature Experiences" to provide integrated patient and provider solutions.
- Built an FHIR interoperability platform for aggregating health data into 30+ FHIR resources.
- Directed onshore & offshore teams in developing an API-first, scalable architecture.
- Ensured ONC CURES Act compliance for provider and payer interoperability solutions.

1upHealth, Inc.

Head of Engineering & Operations | 2018 – 2020

- Led the development of a nationwide interoperability platform for payer and provider data exchange.
- Created FHIR-based APIs for major healthcare organizations including IBM, Aetna, and Children's Hospital Boston.
- Developed data warehousing and analytics solutions integrating Epic, Cerner, Meditech, and Allscripts.

Additional Experience

- **Children's Hospital Boston (2008 - 2011):** Developed an early framework for electronic health records (EHRs).
- **Bioinformatics (2012 - 2018):** Led cloud-based genomics platforms at CRISPR Therapeutics, Editas & Harvard School of Public Health.
- **Defense & Computer Networking (1988 - 2008):** Senior engineering roles at Lockheed Martin, Draper Labs, Cabletron Systems.

Technical Skills

- FHIR Implementation Guides, USCDI, Bulk Data Access
- Cloud Platforms: AWS, Azure, GCP, AWS HealthLake, Lambda
- API Development: RESTful APIs, SMART on FHIR, HL7
- Security & Compliance: HIPAA, ONC CURES Act, OAuth2, OpenID Connect
- Data Engineering: ETL/ELT Pipelines, Data Warehousing, SQL, NoSQL

Industry Involvement & Thought Leadership

- Attends HL7 FHIR events and Healthcare Hackathons