Nathan Riojas

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Georgia Institute of Technology
MS, Computer Science

The University of Texas at Austin
BS, Mechanical Engineering
Minor, Computer Science | Robotics

PROFESSIONAL EXPERIENCE

Staff Forward Deployed Engineer

Foxtrot Services | 06/26–Present

- Modernized an enterprise flight management system for a Part 135 aviation operator by developing scalable applications, ontology actions, and platform integrations on Palantir Foundry
- Developed bidirectional integrations with the Avinode Marketplace through reusable writeback APIs and ontology actions, enabling seamless synchronization between Foundry applications and external aviation systems
- Built an AI-powered crew fatigue and scheduling application using React, TypeScript, AI FDE, and AIP, including custom fatigue scoring and Claude-powered crew recommendations

Senior Data Engineer

Hopscotch Primary Care | 04/23–06/26

- Architected healthcare platforms, AI-enabled applications, and interoperability solutions using Palantir Foundry, PySpark, TypeScript, React, and AWS, supporting clinical operations across multiple healthcare products
- Served as technical lead for strategic healthcare initiatives, owning solution architecture, mentoring engineers, leading engineering reviews, and conducting technical due diligence of prospective vendors
- Established reusable engineering frameworks, shared libraries, and ontology-driven data models that standardized development, strengthened data governance, and accelerated application delivery across engineering teams
- Delivered production AI applications using Palantir AIP, Azure AI OCR, LLMs, semantic search, and RAG, transforming structured and unstructured healthcare data into clinician-facing operational workflows
- Engineered enterprise interoperability solutions integrating HIE, ADT, HL7, FHIR, claims, and third-party systems through APIs, webhooks, SFTP, and event-driven architectures
- Reduced production compute utilization by 80% by replacing no-code implementations with scalable code

Data Science Engineer

Nomi Health | 03/21–04/23

- Designed serverless AWS ingestion services and APIs using Lambda, DocumentDB, Snowflake, and S3 for enterprise healthcare analytics
- Engineered scalable healthcare ingestion pipelines using SFTP and cloud storage while developing reusable Python libraries that standardized EDI integrations across internal applications
- Modernized healthcare data platforms by evolving Protocol Buffer schemas and automating regulatory codeset updates using Python and BeautifulSoup, improving data consistency and reducing manual maintenance

Software Development Engineer in Test

Codeware Inc. | 03/17–11/20

- Developed Python and JavaScript automation frameworks validating proprietary ASME engineering software
- Designed automated verification tools improving computational model accuracy while reducing manual validation

SELECTED ENGINEERING RESEARCH

- Designed a 6-micron precision robotic wafer handling system for semiconductor manufacturing; co-author on research published in the *ASME Journal of Micro and Nano Manufacturing*
- Contributed to the design and development of an adaptable robotic gait rehabilitation, supporting research published in the *ASME Journal of Mechanisms and Robotics*
- Developed a biaxial tissue testing system for mitral valve biomechanics, supporting research published in the *Comprehensive Physiology*.

Languages	Python • TypeScript • SQL • JavaScript • Java
Cloud & Infrastructure	AWS (Lambda, API Gateway, DynamoDB, SAM, Secrets Manager) • Snowflake
AI Engineering	LLMs • RAG • Palantir AIP • AI FDE • OCR
Application & Integration	Palantir Foundry • Foundry OSDK • React • REST APIs • Postman • PySpark