

# Alston Nguyen

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## TECHNICAL SKILLS

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Frontend: JavaScript (ES6+), TypeScript, React, Next.js, Redux, HTML, CSS, Dart, Flutter

Backend: Python, NoSQL, SQL, Apache Kafka, Node.js, Express, Docker

## EXPERIENCE

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### Software Engineer (Open Source Project)

May 2023 - Present

[KafkaTrace](#) - [OS Labs](#) | New York, NY (Remote)

- Created a developer dashboard in React for backend engineers that increases developer productivity by consolidating monitoring tools such as Prometheus, Zipkin, and Jaeger into one view.
- Created an NPM package ([kafkatrace](#)) incorporating OpenTelemetry instrumentation libraries to simplify the instrumentation of Kafka clusters by 93% (from 60+ lines of code to 3).
- Utilized NextAuth.js for open authentication, enhancing user access options and bolstering security.
- Wrote unit and integration tests using Jest.

### Software Engineer / Product Manager

May 2021 - Aug 2022

LeanTaaS Inc. | Santa Clara, CA (Remote)

- Served data to the frontend to enable chemotherapy centers to manage appointments in real-time, using NextGen Mirth to build, test, and deploy message data pipelines.
- Analyzed and filtered hospital-provided data using Python, reducing chair wait times by up to 50%.
- Created a DevOps script for automating daily ETL of EHR data to Amazon S3 to view on Tableau, which increased patient access by 150%, leading to earnings of up to \$20k/ chair annually.
- Data Implementation Support: real-time HL7 FHIR integration of patient protected health information (PHI) data from various EHR systems across 1200 + hospitals improving data interoperability and patient care coordination.

### Industrial Engineer

Sept. 2018 - May 2021

The Boeing Company | Everett, WA

- Employed SQL queries to achieve a 54% reduction in defects by conducting precise root cause analysis within an extensive parts database, significantly enhancing product quality.
- Created Tableau KPI dashboard, driving improvements to two separate 6-axis robotics arms used for the drilling/filling of airplane parts leading to a 17% increase in OEE and a 34% decrease in downtime.

## EDUCATION

### Georgia Institute of Technology

Expected 2026

Master of Science, Computer Science

- Enrolled part-time asynchronously / online

### California Polytechnic University / University of Washington

2016 / 2022

Bachelor of Science, Industrial Eng. / Masters of Eng., Systems and Industrial Eng