

# Francis Lamorte

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## Summary

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Senior Full Stack Engineer with 10+ years of experience building high-performance applications using AWS, React, Python, Node.js, and TypeScript. Adept at collaborating in agile teams to deliver scalable solutions and drive continuous improvement. Seeking opportunities to build impactful, user-centric applications in agile environment.

## Skills

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JavaScript, TypeScript, React, React Testing Library, Vite, Redux, Redux Saga & Thunk, React Native, Next.js, Angular, Vue, HTML, CSS, Storybook

Node.js, Express.js, NestJS, Python, Flask, Django, AWS, AWS Lambda, GraphQL, RESTful API, Jest, Cypress, Playwright, Microservices, serverless

MySQL, PostgreSQL + Prisma, Oracle, MongoDB, Docker, Kafka, RabbitMQ, Kubernetes, Terraform, Git, CI/CD, Prometheus + Grafana

## Experience

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### Kodiak Robotics

Mountain View, CA

Senior Full Stack Engineer

February 2021 - January 2025

- Implemented core functionalities for an AI-driven fleet management interface using React, Node.js, and TypeScript within AWS, enabling in advanced sensor data visualization and comprehensive real-time vehicle tracking capabilities.
- Designed and developed a user-friendly dashboard to enhance real-time analytics, leveraging Chart.js for interactive data visualization, TailwindCSS for responsive styling, and Styled Components for modular design, resulting in optimized data visualization outputs and improved user engagement.
- Built a GraphQL API with Apollo Server and Node.js for KodiakDrive, streamlining data operations and boosting access speeds by 40%.
- Collaborated with Data Engineers on AI/ML pipelines using Python (Django), enabling predictive maintenance and real-time traffic pattern analysis. This work improved autonomous decision accuracy by 30% and reduced unscheduled maintenance incidents by 20%.
- Engineered scalable vehicular telemetry solutions using Prisma + PostgreSQL, facilitating advanced analytics and contributive to a 30% reduction in data retrieval times.

### Benchling

San Francisco, CA

Senior Full Stack Engineer

July 2017 - January 2021

- Led the integration of Benchling's LES with lab instrumentation, including liquid handlers, optimizing automation throughput using API architectures, Python scripts, and event-driven architecture workflows.
- Developed a real-time data visualization module for Benchling's platform, leveraging React, D3.js, WebSockets, and Redux to enhance interactivity and responsiveness, resulting in a 25% increase in user engagement.
- Architected and delivered full-stack features for Benchling's collaborative research platform, leveraging Python (Flask), GraphQL, and MongoDB to improve cross-functional data accessibility by 30% and streamline data retrieval and integration.
- Deployed containerized applications using Docker and Kubernetes to enhance service reliability and achieve 50% reduction in downtime.
- Migrated authentication workflows to OAuth2, improving system security by 35% and reducing access errors.

### Amazon Web Services (AWS)

Naples, FL

Senior Software Engineer II

June 2015 - June 2017

- Redesigned the AWS Resource Management Console interface by transitioning from AngularJS to Angular, leveraging TypeScript and performance optimizations to enhance user experience, improve responsiveness, and achieve 30% faster loading speeds.
- Used Angular and Redux for state management in AWS apps, improving maintainability and cutting bugs by 20% with robust testing.
- Integrated third-party apps using RESTful services (JSON, XML), boosting system interoperability by 40%.

### Katabat

Naples, FL

Web Developer

October 2013 - June 2015

- Revamped the UI of an internal reporting tool with responsive frameworks and JavaScript libraries, increasing user engagement by 50%.
- Created an automated testing ecosystem powered by Selenium and Jasmine, improving code quality and reducing debugging duration by 60%.
- Optimized API call structures and response handling, reducing latency by 25% and improving overall user experience.

## Education

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### Master of Science in Computer Science

University of Maryland • 3.82 GPA

College Park, MD

2013

### Bachelor of Science in Computer Science

University of Delaware • 3.9 GPA

Newark, DE

2011