

James Martineau

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Summary

Full-Stack Developer & Solutions Engineer with a business-first mindset and a passion for building scalable, cloud-native applications. Transitioned from data analysis to software engineering after earning a Business Administration degree with a focus in Information Systems. Known for bridging business and tech, I design secure, modern solutions (React, Node.js, AWS) that simplify architecture and drive strategic impact. I thrive on solving complex problems, mentoring teams, and delivering clean, scalable systems that are fit for purpose.

Technical Skills

Languages & Frameworks

JS, TS, Node.js, React, Next.js, Vite, React-Query, Redux, Spring, GraphQL, REST APIs Chakra UI, Styled Components, Material UI

Cloud & DevOps

AWS (Amplify, API Gateway, Lambda, S3, CloudFormation, CDK, Cognito, Aurora) Kubernetes, Docker, GitHub Actions, Bamboo, Observability, Monitoring (Datadog, CloudWatch dashboards), CI/CD

Databases

PostgreSQL, MySQL, AWS Aurora Serverless

Auth & Security

OAuth2 (PKCE), OIDC, Passport.js, security-by-design

Testing

Jest, Vitest, Unit & Integration, TestCafe, K6, TDD, Accessibility

Tools, Automation, & AI

Figma, Storybook, Tableau, PowerBI, SharePoint, VBA, Generative AI, Prompt Engineering, MCPs

Soft Skills

- Strategic solution design
- Business and stakeholder alignment
- Cross-functional collaboration
- Mentorship and team leadership
- Technical evangelism & knowledge sharing
- Strong written and verbal communication
- Problem solving and systems thinking
- Innovation-driven mindset
- Level-headed and adaptability

Experience

IAPP, *Portsmouth, NH*

Solutions Engineer

Dec 2024 – Present

- Designed scalable AWS cloud-native solutions for internal and external platforms, replacing legacy Domain-Driven architecture with reusable patterns aligned to long-term strategy.
- Delivered a 25%+ reduction in AWS costs by decommissioning redundant services, eliminating technical debt, and promoting a culture of sustainable architecture.
- Led enterprise-wide initiatives to simplify architecture and automate DevOps workflows, significantly improving Mean Time to Change and Mean Time to Recovery by 200%.
- Drove technology adoption across teams by evaluating and introducing modern tools; aligned engineering roadmaps with evolving business needs.
- Unified engineering and business stakeholders through clear solution design processes, influencing product direction and technical strategy with cross-functional buy-in.

- Defined and championed secure coding standards and security-by-design practices, mitigating production risks and raising the bar for application and pipeline security.
- Set the tone for a strong engineering culture through leadership in knowledge sharing; initiated Lunch & Learn series to document and disseminate best practices, directly reducing defect rates.
- Acted as a force multiplier for the engineering team—mentoring peers, standardizing patterns, and fostering a culture of innovation and technical excellence.
- Worked closely with squads developing features and identifying technical solutions for upcoming roadblocks.

Principal Software Engineer

Aug 2024 – Dec 2024

- Lead strategic development of modernized external user management application to position business for strategic growth initiatives.
- Researched and implemented DevOps practices and streamlined CI/CD pipelines
- Worked closely with business partners to improve website SEO scores through code enhancements

Liberty Mutual Insurance, *Portsmouth, NH*

Principal Software Engineer

July 2021 – Aug 2024

- Led end-to-end delivery of the enterprise Employee Center application, integrating internal systems and third-party services to ensure high availability, fast response times, and seamless user experience across devices.
- Architected cloud-native backend services and microservices to support real-time notifications, vendor integrations, and secure data access—enabling seamless enterprise workflows.
- Championed security and compliance by implementing OAuth2/OIDC protocols, role-based access, and leading threat modeling sessions aligned with the AWS Well-Architected Framework.
- Partnered with product and UX teams to translate business goals into intuitive interfaces, ensuring alignment with accessibility standards.
- Established engineering best practices through a team-wide “norms” contract, introducing robust testing strategies and continuous monitoring for resilience and uptime.
- Mentored junior engineers and cross-trained non-technical team members, fostering a culture of growth and technical excellence.
- Pioneered the development of a custom accessibility Chrome extension to enhance usability and inclusivity across enterprise applications.
- Enabled proactive risk mitigation by integrating Datadog for 24/7 observability, alerting, and conducted performance benchmarking with K6 and Grafana.
- Actively contributed to architectural strategy and long-term technical planning in collaboration with senior architects and stakeholders.
- Innovated the creation and design of an accessibility Chrome extension ([View in Chrome web store](#))

Senior Software Engineer

April 2020 – July 2021

- Helped develop and took ownership of Postgres stored procedure data load for enterprise employee performance application supporting 50,000 users.
- Created enterprise React/Redux/Spring application with CloudFormation Templates that integrated with other data sources for 8,000 managers to apply employee salary raises
- Constructed notification AWS API Gateway/Lambda microservice integrating with MS exchange.
- Performed database cost-optimization assessment for right-sizing and saved \$50,000

- Originated a reusable and innovative web application solution to meet enterprise redeployment requirements with React/Redux/Node.js/Postgres application.
- Invented and maintained automated end-to-end testing suite using TestCafe and Bamboo CI/CD pipelines
- Developed and designed React component library with team using Styled Components and Storybook.

Software Engineer

January 2018 – April 2020

- Contributed to feature development of job posting application for proactive employee notifications.
- Applied unit/integration testing disciplines (Jest/ Enzyme /Junit) for all feature development.
- Conducted Bitbucket code reviews and deployed code through CI/CD pipelines.

IT Project Coordinator / Data Analyst

January 2015 – January 2018

- Seized opportunity to automate process and initiate growth as an aspiring developer amidst entry position.
- Developed a suite of tools using VBA to that integrated with SharePoint to intake contractor onboarding requests, distribute email notifications, record administrative actions, and generate reports.
- Performed recurring IT Learning expenditure analysis using Tableau/PowerBI, and automated Excel functions and PowerPoint generation using VBA.

Education

University of New Hampshire, *Durham, NH*

- **Full Stack Coding Boot Camp** *September 2017 – March 2018*
 - 24-week course with in-depth learning and experience in MERN stack
- **Bachelor of Science in Business Administration** *2009-2013*
 - Dual concentrations in Information System Management and Management.

Certifications & Awards

- **AWS Certified Cloud Practitioner**
- 2023 Liberty Ignite Hackathon winner using ChatGPT (enterprise-wide event)
- 2x HR department hackathon winner (2021 & 2022)
- 2019 Liberty Mutual Excellence Award for launch of new enterprise HR employee performance application

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