

Kevin W. Sylvestre

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Qualification Highlights

- **Twelve years of experience** in software development and three years in management across diversity of industries
 - Experienced with **Python, C, C++, TypeScript, C#/Java**, and **TerraForm** development on **Linux, Windows, and Mac**
 - Deployment platforms ranging from **low-level DSPs** up through **hybrid-cloud compute clusters**, leveraging **Kubernetes** and **Docker** on **AWS, Google Cloud** and other cloud providers
 - Independently developed **version-controlled infrastructure-as-code** solutions to process, store, and present **hundreds of thousands of streaming data messages per day**, including cloud services such as databases (**PostgreSQL, TimestreamDB, MongoDB, DynamoDB, S3**), compute tools (**EC2, Apache Flink, Lambda**), identity management (**Cognito, SSO**), and frontend tools (**Amplify, Grafana**)
 - Organized, creative and analytical problem-solver; strong communication and interpersonal skills
 - Proven success working independently, contributing to a group effort, or recruiting and leading a team
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Professional Experience

RISE Robotics

Somerville, MA

July 2022 – Present

Lead Full Stack Software Engineer

- Solely responsible for design and implementation of all internal infrastructure and cloud software solutions, supporting product data streams with hundreds of thousands of messages daily
- Build and maintain entire version-controlled tech stack consisting of TerraForm, Typescript web apps, Python analytics apps, and C/C++ interfaces, leveraging AWS cloud services
- Mentor less senior engineers to develop software interfaces for cloud solutions
- Work with product managers and both internal and external customers to resolve engineering requirements and design goals with very limited managerial guidance
- Promote engineering best practices and develop strategy and hiring plan for continued infrastructure development

Perceptive Automata, Inc.

Boston, MA

July 2020 – June 2022

Manager, Architecture and Core Engineering

- Managed and contributed to diversity of development efforts, including hardware, software, AI, CV
- Recruited and led remote/hybrid engineering team, mentoring and guiding individual growth
- Spearheaded engineering best-practices efforts for entire company by devising and promoting standards and practices
- Translated business strategy into team roadmaps for Agile sprint-driven development cycles
- Continued technical contributions, including containerized build system, custom monorepo CI/CD tooling integrated with GitHub Actions, and hybrid-cloud LRU file caching scheme to slash AWS S3 data egress costs by >90%

Senior Software Engineer

August 2018 – July 2020

- Spearheaded greenfield design and development of real-time, low-latency C++ application and API for deploying proprietary machine learning and computer vision algorithms on customer AV platforms
- Collaborated with top AV research groups to implement custom API layers to suit their integration requirements
- Improved and maintained sensor hardware and software on company data collection/demo vehicle
- Developed bulk data processing framework with hybrid-cloud integrations and PostgreSQL-driven queuing system
- Developed and conducted on-site and remote engineering technology demos for customers, investors and media

MakerBot Industries, LLC

Brooklyn, NY

July 2017 – August 2018

Senior Embedded Engineer

Cambridge Consultants, Inc.

Boston, MA

Senior Software Engineer, Medtech Division

July 2016 – June 2017

Software Engineer, Medtech Division

March 2015 – July 2016

Electro Standards Laboratories

Cranston, RI

Design Engineer, R&D Department

June 2011 – March 2015

Education

University of Rhode Island

Kingston, RI

Bachelor of Science in Biomedical Engineering

Graduated May 2011