

ERIK STROM

Senior Software Engineer

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Summary

Experienced Senior Software Engineer with 12 years of expertise in building scalable, high-performance backend and full-stack solutions across industries including e-commerce, manufacturing, and SaaS. Highly skilled in Python, JavaScript, and LLMs, leveraging frameworks and technologies like Node.js, React, GraphQL, Docker, AWS, and PostgreSQL to deliver robust, customer-centric systems. Proven ability to integrate AI-driven solutions and optimize development workflows using automation tools such as n8n, Make.com, and Python scripts. Adept in Test-Driven Development (TDD), driving continuous improvements in software quality and efficiency. With a track record of success at Nivoda, Brilliant Earth, and General Motors, I specialize in transforming complex business requirements into technical solutions, improving system scalability, reducing latency, and enhancing user experience. Passionate about mentoring junior developers and fostering collaborative, high-performing teams.

Skills

Programming Languages: Python, TypeScript, JavaScript, Java, C#, PHP, HTML, CSS

Frameworks: FastAPI, Flask, Django, React, Angular, Vue, Next, Remix, Node, Express, .NET, ASP.NET

Cloud Services: AWS, Azure, GCP

Other Tools: PowerBI, Databricks, SQL, PostgreSQL, Shopify, Salesforce, Splunk, Ataus, Kafka, Docker, Builder.IO, Make.com, n8n

Emerging Tech: AI, ML, NLP, LLM, Automation, Business Analytics, Visualization, Computer Vision, Speech Recognition

My Life Philosophy

If I have seen farther, it is by standing on the shoulders of giants.

— Isaac Newton

Education



Yale University

B.A. in Computer Science

2008 - 2012

Experience



Nivoda

Remote, United States

Senior Software Engineer (Backend Focus)

10/2021 - 01/2025

- Integrated **LLM** and **AI automation** into the platform with **OpenAI**, **LangChain**, **LangGraph**, **Twilio** and **Whatsapp Business API**, enabling intelligent lead generation, automated payment processing, and order tracking through a seamless chatbot integration.
- Utilized **Make.com** to automate and streamline the business pipeline in the **CMS**, improving operational efficiency and enabling faster decision-making processes.
- Collaborated with product managers, architects, and stakeholders to translate business needs into technical solutions, utilizing **Node.js**, **PostgreSQL**, and **GraphQL** to build robust backend systems.
- Drove the adoption of **Test-Driven Development (TDD)**, ensuring high-quality code and adherence to best practices, coding standards, and software development life cycle (SDLC) guidelines.
- Developed and maintained microservices architecture, integrating **Docker**, **Kafka**, and **API Gateway** to optimize system performance and improve scalability across the platform.
- Led the design and implementation of cloud-hosted applications using **AWS**, collaborating with cross-functional teams to prioritize and implement new features based on customer feedback.
- Mentored junior developers, fostering a collaborative and innovative environment while improving the overall quality and efficiency of engineering work in the team.

Experience



Brilliant Earth

Seattle, United States

Senior Software Engineer (Full Stack)

03/2017 - 10/2021

- Designed, developed, and deployed over 50 high-quality features on critical areas of the e-commerce platform with **TypeScript** and **React**, including homepage, product listing, description pages, wishlist, and checkout, while adhering to industry-standard coding practices, leading to a daily user base of approximately 400,000 individuals, driving sales in the millions.
- Led the backend replatforming effort, migrating key **Django** endpoints to **Django REST framework** to support a new headless **CMS** powered by **Builder.IO**, resulting in a 25% increase in system throughput and 30% reduction in server response times. Also drove initiatives to streamline development processes, such as simplifying git branching, enforcing linting/formatting and conventional commits, and creating development best practices guides.
- Led the optimization of **A/B testing** processes by developing a framework for **Google Optimize**, which resulted in a significant increase in testing velocity from 1 test per sprint to 6-10 tests per sprint, thereby accelerating the pace of product development. I also drove innovation in testing by championing the adoption of more advanced platforms, such as **VWO**, and personally trained the product team on how to independently set up tests, freeing up valuable developer time and resources.
- Created and implemented standard operating procedures (**SOPs**) for daily monitoring of **AWS**, **Splunk**, **Atatus**, and **WebPageTest** dashboards to proactively identify abnormal trends and address production issues, resulting in a smooth user experience and a 40% reduction in production bugs for a high-traffic e-commerce platform.



Brilliant Earth

Seattle, United States

Business Analyst, E-Commerce

07/2015 - 03/2017

- Spearheaded automation and process optimization initiatives using **Shopify**, **Salesforce**, and **AWS** to enhance e-commerce operations, enabling scalability and streamlined business processes.
- Collaborated with cross-functional teams to gather business requirements and design tailored solutions utilizing **Python**, **JavaScript**, **n8n**, and **Make.com** for workflow automation and AI-driven business optimizations.
- Managed key integrations such as **email automation** via **Make.com**, **appointment booking**, **live chat**, **social shopping**, and other **MarTech** solutions, ensuring seamless user experiences and maximizing the effectiveness of digital platforms.
- Led the development of process flows and technical documentation, creating customized solutions in **Shopify** and **Salesforce**, and providing training and support to end-users for efficient system utilization and ongoing improvements.
- Drove quality assurance and testing for e-commerce solutions, leveraging **AWS** and **Google Cloud** for infrastructure and executing comprehensive test plans to ensure optimal functionality and performance.



General Motors

Detroit, United States

Motorsports Senior Web Software Engineer

06/2012 - 06/2015

- Designed, implemented, tested, and maintained efficient, reusable, and reliable software solutions for **GM Motorsports** programs, including **NASCAR**, **IndyCar**, **IMSA**, **WEC**, and **F1**, optimizing race event execution and team performance.
- Developed applications using **Angular**, **TypeScript**, **JavaScript**, **Node.js**, **HTML/CSS**, ensuring high standards of performance, scalability, and reliability.
- Integrated **REST APIs** (primarily **ASP.NET Web APIs**) for seamless data exchange between systems.
- Collaborated with cross-functional teams, including AI engineers and data scientists, to deliver rapid analytic solutions and AI products, utilizing **Python**, **Databricks**, and cloud services like **AWS** to optimize manufacturing processes.