

Eric Butera

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Summary

Technology leader with extensive experience in full-stack development, architectural design, and data pipelines. Proven track record of driving innovation and efficiency while fostering collaboration and aligning technical vision with business objectives. Committed to delivering scalable and secure solutions with a focus on continuous improvement and lifelong learning.

Skills

Architecture, full-stack development, databases, data pipelines, observability, devops, security, testing, agile

Technology

Golang, Python, Kubernetes, C#, GCP, AWS, Azure, Postgres, MySQL, T-SQL, JavaScript, Ruby, React, Terraform

Senior Software Engineer II - Censys (May 2022 -September 2024)

- Developed the Borealis microservice using gRPC, Pub/Sub, Cloud Spanner, and Grafana's LGTM stack, scaling data ingestion from 7 million to billions of records daily.
- Delivered company-wide presentations on observability, covering tracing, metrics, structured logging, and their impacts, along with hands-on labs for practical experimentation and an overview of the Grafana LGTM stack.
- Created an isolated local development environment for feature development, preventing direct pushes to production, failed database migrations, and generally reducing cloud spending.
- Spearheaded a cross-team initiative to scale the Cloud Connector product, achieving a 10x increase in scan rate by validating assumptions through prototyping and implementing request rate limiting to ensure responsible API consumption.
- Implemented a comprehensive test harness for the Cloud Connector, validating functionality by provisioning known infrastructure across cloud providers, ensuring seamless transition from Python to Golang with 100% reliability.
- Conceptualized and led the Rapid Integrations Platform development, accelerating data source integration from annual to quarterly and successfully launching the first integration with ServiceNow two months early, mitigating critical deal risks.
- Built a documentation template that included playbooks, architecture diagrams, FAQs, and observability tools, ensuring consistency and reducing onboarding friction across teams.
- Led the integration of AWS support into the Cloud Connector Unified product, enhancing onboarding with guided setup, streamlined Terraform deployment, and comprehensive public-facing documentation.

Software Engineer - Kenna Security / Cisco, Inc. (April 2021 – May 2022)

- Engineered the InsightVM initiative data pipeline by conducting in-depth research on vendor API intricacies, including authentication, authorization, data formats, rate limits, and failure types, while meticulously documenting critical decisions throughout the process.
- Mentored and guided new team members by facilitating knowledge sharing through Confluence documentation, pair programming sessions, and recorded demonstrations, fostering a collaborative learning environment within the team.
- Led the development of the Loader Service microservice, a critical component of data ingestion that helped decompose our monolithic architecture. Implemented robust integration and unit tests, ensured strong typing and validation through JSON Schema, and maintained backward compatibility, significantly enhancing operational flexibility and scalability.
- Developed and maintained integrations for enterprise security tools, including Rapid7 InsightVM, CrowdStrike, Tenable.io, Qualys, and Microsoft Defender.
- Led hands-on development and continuous upkeep of large-scale data pipelines with Ruby, MySQL, Sidekiq, and Resque, enabling the ingestion and processing of over 10 terabytes of data daily.

- Earned Cisco Certified Interviewer and ScrumAlliance Certified Scrum Master certifications, enabling effective interviewing and leadership in SCRUM team activities.

Software Architect - Northpointe, Inc. (April 2013 – April 2016 / June 2019 – April 2021)

- Collaborated closely with the Product Team to conduct comprehensive technical analysis and planning initiatives, including requirements assessment, architectural planning, and prioritization of deliverables. Provided multiple implementation options and successfully delivered software on time, achieving a 70% reduction in defects.
- Spearheaded a ground-up rewrite of the assessment questionnaire user interface for the COMPAS-R initiative, implementing modern UI components while ensuring backward compatibility and facilitating the rapid development of new assessments.
- Led an architecture modernization initiative to convert the legacy application into an API-driven single-page application (SPA), achieving an 80% reduction in code while maintaining feature parity.
- Delivered a multi-role case management system featuring advanced scheduling, diverse contact types, and robust reporting for the Wisconsin DOC.
- Mentored and coached team members through pair programming and code reviews, cultivating a collaborative and skill-sharing environment.
- Achieved multiple certifications, including Microsoft Certified Professional and Microsoft Specialist: Programming in HTML5 with JavaScript and CSS3 contributing to the company's Microsoft Silver Partner status.
- Attained security clearance for Houston County Department of Corrections.

Software Engineer II - Salamander Technologies, Inc. (August 2018 – June 2019)

- Led the development of an advanced inventory mapping feature utilizing ArcGIS technology, incorporating two-way data synchronization and a visual user interface to enhance location-based data management and improve overall functionality and user experience.
- Designed and developed a user-friendly data grid component, complete with an intuitive search feature. This innovation eliminated the need for cumbersome search queries, significantly improving user experience.
- Remediated security vulnerabilities identified by external security audits, addressing server-side issues in IIS and implementing necessary modifications to the codebase.

Lead Software Engineer - Byte Productions, LLC (April 2003 – April 2013 / January 2017 – August 2018)

- Produced tailored e-commerce solutions with intricate business logic, encompassing live shipping rates, shipping logistics, real-time inventory tracking, and seamless integration of multiple payment systems.
- Developed a versatile Content Management System (CMS) platform, incorporating visual editing, Role-Based Access Controls (RBAC), version history, print-friendly pages, shared code, plugin architecture, custom layouts, and support for custom page types, providing a flexible and tailored content management solution.
- Engineered an email delivery platform with advanced analytics, robust subscription management, visual editing, change history with restore, granular user permissions, and flexible delivery scheduling, adhering to compliance by handling unsubscribing and adhering to rate limits.
- Implemented a rigorous testing approach, including integration, functional, and unit testing, utilizing multiple systems including Nightwatch, Selenium, Codeception, PHPUnit, and Python's unittest.
- Protected clients by implementing security best practices outlined by OWASP, closely monitored emerging exploits, including XSS, SQL injection, header injection, and automated attack prevention.