Seattle, WA, USA erickiersky@hotmail.com

Eric S. Kiersky

Software Application Developer

Background

Extensive application software development experience

Experience Summary

I imagine, architect, design, prototype, develop, test, deploy, support, and maintain applications. These applications have included internal corporate tools/applications, and products for external customers. The scope has encompassed small scripts and macros, group level applications, enterprise application systems, Microsoft Windows features, a global network traffic control system, enterprise application log data aggregation/alerting, and cloud data processing. My current focus is application/tools development based mostly in Microsoft C#/.NET. and Amazon Web Services (AWS).

Senior DevOps Engineer

Developed software applications and solutions

(Jul 2022 - present)

SAP Concur

Bellevue, WA, USA

- Developed software for Identity and Access Management Governance Risk and Compliance.
- Key skills applied were C#/.NET, Amazon Web Services (AWS), web API execution.
- Maintained an AWS data processing pipeline leveraging C# <u>Lambda functions</u>, <u>DynamoDB</u> storage.
- Maintained a WPF desktop GUI that displays data described above.
- The automation I provided significantly improved the work accomplished by my coworkers, saving them significant efforts and time performing their ongoing tasks.
- Developed automation applications working with <u>Jira</u>, <u>Okta</u>, <u>ServiceNow</u>, and <u>Azure AD</u> <u>web APIs</u>.
- Continually innovated, reimagined solutions, invented new solutions, and improved the applications
 I developed.

Software Dev Consultant

Developed software applications and solutions

(Jan 2021 – Jul 2022)

Murphy & Associates

Kirkland, WA, USA

- Developed software for Identity and Access Management Governance Risk and Compliance at <u>SAP</u> <u>Concur</u>.
- Key skills applied were C#/.NET, Amazon Web Services (AWS), web API execution.
- Conceived, developed, and delivered an AWS report data processing pipeline leveraging C# <u>Lambda functions</u>, <u>Simple Queue Service</u>, and <u>DynamoDB</u> storage.
- Conceived, developed, and delivered a WPF desktop GUI that displays data described above.
- The automation I provided significantly improved the work accomplished by my coworkers, saving them significant efforts and time performing their ongoing tasks.
- Developed automation applications working with Jira, Okta, ServiceNow, and Azure AD web APIs.

Sr Software Developer

Developed DevOps software applications and solutions

(Jul 2017 - Dec 2020)

Plex Systems

Troy, MI, USA

- Plex Systems provided Manufacturing <u>ERP</u> and <u>MES</u> SaaS Solutions.
- Member of the DevOps team within the Cloud Operations organization, providing applications and tooling to improve the productivity and experiences of Plex product developers.
- As a part of a <u>CI/CD</u> modernization initiative, I helped develop a system called Deployment Source
 of Truth. This system offered a single web page showing the currently deployed versions for all Plex
 subsystems, across multiple tiers: dev, test, int, prod. It also offered information about recent <u>Azure</u>
 <u>DevOps</u> deployments for each system, including log data showing successes and failures.
- For Deployment Source of Truth, I developed a data processing pipeline with Azure to collect and send data from <u>Azure</u> to a <u>neo4j</u> data store via a <u>GraphQL Web API</u>. I wrote HTTP-triggered <u>Azure</u> <u>functions</u> that stored <u>blob data</u>, then inserted <u>queue messages</u> pointing to the blobs. A C# .<u>NET</u> <u>Core</u> console application then polled that queue to initiate reading the JSON blobs, extracting select data, then sending it to <u>GraphQL</u> with HTTP calls.
- Developed <u>Azure DevOps pipeline</u> automation to build and deploy the code described above.
- Developed monitoring and alerting within <u>Microsoft Azure</u>. Authored <u>Kusto queries</u> for alerting and reporting. Created <u>Logic Apps</u> that created then emailed daily reports. Developed <u>C#/.NET</u> utilities to promote alert components for releases. Developed C# Azure <u>Functions</u> to enable alert integration with <u>OpsGenie</u> via <u>web API</u>.
- Performed system administration in creating/maintaining an <u>Elasticsearch</u>-based system that
 collected application log data for analysis and alerting. This solution employed the <u>Elastic Cloud
 Enterprise</u> offering, including an Elasticsearch store, <u>Logstash</u> data ingestion, and <u>Kibana</u>
 visualization. Authored Logstash data processing to shape data for efficient querying.

Software Engineer

Microsoft

Redmond, WA, USA

Developed features for Windows Universal Store Core Engineering

(Jun 1993 - Jul 2017)

Last role was developing Windows features for controlling network bandwidth consumption
originating from <u>Windows Updates</u> and <u>Universal Windows Platform app</u> updates, assuring smooth
delivery of the updates, as well as major Windows releases to consumers world-wide.

- Before that was DevOps work for Windows Update, developing features for Microsoft.com, developing IT applications, testing for Word, and developing applications on a Sales Operations team.
- Most recent key skills used were <u>C#/.NET</u>, <u>SQL Server</u>, and <u>SQLCLR</u>.

Software Engineer

Developed cloud-based data processing and reporting

(Feb 2017 - May 2017)

bLoyal

Redmond, WA, USA

- <u>bLoyal</u> was a customer loyalty program service provider, hosted entirely with <u>Microsoft Azure</u>.
- Worked with the company founder to develop a log viewer system that aggregated JSON log data sent to an Event Hub, performed some data transformations, then sent the data to Azure Monitor Log Analytics for querying. An Azure Stream Analytics job was leveraged to pull data from the Event Hub, then a custom WebJob service transformed the Azure blob data before sending it to Log Analytics. The result was highly searchable, centralized log data, instead of numerous scattered individual log files, enabling faster data analysis.
- Developed a reporting solution using <u>U-SQL</u> to query data in <u>SQL Azure</u>, writing data to a <u>Data Lake</u> file, which then was viewed via <u>PowerBI</u>. This solution helped bLoyal collect monthly billing data.

Programmer Analyst

Architected, designed, and coded IBM mainframe applications

(1984 - 1993)

Renton, WA, USA

- My last position at Boeing was in Executive Offices Computing, an IT organization providing Windows-based application software for commercial airline customers and internal Customer Engineers.
- I developed a database application to provide airline customers information they needed on the status of their airplanes being manufactured by Boeing. Dial-up FTP communication was used to distribute data world-wide. This application greatly helped airline customers by providing daily updates instead of monthly paper reports.
- Before that was many years of <u>IBM mainframe</u> application development, providing software used to report monthly financial statements for Boeing's commercial division. I developed database applications using <u>COBOL</u>, <u>DB2</u>, and <u>IMS</u>.

Education

Preparation and further evolving my career in software applications development.

Coursera online

Machine Learning (Stanford), July, 2013.

City University
Bellevue, WA, USA

Bachelor of Science in Computer Information Systems, 1991.

Green River Community College Auburn, WA, USA

Associate of Applied Science in Electronics Technology, 1983.

Boeing Computer Services Tukwila, WA, USA Business Programmer Certificate, 1984. Learned COBOL and IMS.