Ryan J. Rickerts

SENIOR ENGINEER / PRINCIPAL ARCHITECT

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SKILLS

// PROFESSIONAL

APIs & Web Services

Database Design

Data Analysis

Cloud Computing

Team Leadership

Architecture Planning

DevOps Modernization

CI/CD Pipelines

// TECHNICAL

NodeJS / TypeScript / JavaScript

SQL (MySQL/Postgres) and NoSQL (Mongo/DocumentDB)

GraphQL / REST / SOAP

Ruby on Rails / Python

JS / HTML / CSS

Serverless / AWS CloudFormation

Docker / Git / Github / Gitlab

EDUCATION

MASTER'S DEGREE
Computer Science
University of Illinois at
Urbana-Champaign
August 2021
Emphasis on Data Science

BACHELOR'S DEGREE
Math/Computer Science
Western Washington University
Bellingham, WA
June 2005
Math Fellow (high level tutor)
Double Major in Engineering

OBJECTIVE

With a rich history of contributing to successful enterprise-level projects, I am ready to bring my extensive knowledge of integration techniques and technologies to drive impactful outcomes for a large & growing organization. A highly accomplished and results-driven Senior Software Engineer with a broad background in API development, serverless systems, and data science. Proven decision making ability around building scalable, flexible, and secure architectures, then contributing significantly to the development of complex systems by leading technical teams and writing testable code.

I deal well with ambiguity and uncertainty in the roadmap and enjoy pioneering the path forward. It excites me to embark on large, new projects with all of the unknowns and bring some stability, accountability, and confidence in deliverable milestones. My best fit is a collaborative position between business leadership and engineering and product teams to find the most practical & balanced solution for accomplishing an architecture problem, develop standards, and communicate the plan across the organization as it evolves & stabilizes.

After obtaining my Masters C.S. degree in 2021, I am still passionate about the potential we gain as a society from building & integrating software services to leverage distributed & cloud computing, machine learning & AI. I look forward to more professional growth on the frontiers of technology. I value both professional mastery and community engagement, showcasing a dedication to leadership in a multitude of work and volunteer capacities.

EXPERIENCE

SR. SOFTWARE ENGINEER | API BACKEND TEAM LEAD
Aug 2021 – Oct 2023
Sportradar U.S. Sports Media — Minneapolis, MN (remote)

Helped lead a squad launching an entire platform replacement of a critical and heavily subscribed API Gateway for a massive real-time data service using IaC and the AWS SDK along with a web-based UI for customers to manage their own API keys. Built with TypeScript, Node.js, Apollo GraphQL, React, Lambdas and DocumentDB.
Prototyped & implemented a full custom replacement of Basic Auth in a suite of back-end applications with OAuth 2.1 standard for SSO using AWS Cognito and Azure AD.
Quickly oriented myself in multiple legacy applications, each reliant on a large landscape of microservices including open-source based web servers, message brokers, cloud databases, caching layers, and CI/CD deployment pipelines to make rapid contributions.
Reached a proficiency-level with our production architecture built on Kubernetes such that I could handle periodic weeklong, 24/7 on-call shifts within 4 months of my hire date.
Collaborated across teams using Jira for agile sprint planning on tight release timelines across dozens of products, markets, and stacks while working 100% remotely.
Immediately tackled security-related initiatives that required engineering-led motivation and discipline to find & mitigate vulnerabilities in open-source libraries.

CTO | SOFTWARE SYSTEMS ARCHITECT
Oct 2020 – May 2021
Pairadime, Inc. — Globally Distributed

Played a pivotal role in sourcing, creating, and onboarding all technology needs for a startup with a niche concept in the real estate space.

Managed IT onboarding and provided tech resources for 12 staff members.
Optimized a WordPress installation supporting contributors (authors/designers), focusing on SEO rankings while ensuring high availability, reliability & site quality.
Introduced data processing automation using TypeForm and Google Docs SDKs via AWS Lambda functions to provide workflows for connecting agents with customers.
Guided a team of two React developers on building out a detailed specification of a legal document generator and provided back-end architecture to handle data persistence.
Built a custom browser-based home affordability calculator in JavaScript and JQuery.
Helped pitch our company vision to several seed investors by communicating the long-term product roadmap.

SR. SOFTWARE ENGINEER   *Feb 2008 – July 2020*
Saturna Capital Inc. — Bellingham, WA

Championed a major overhaul of a monolithic, legacy enterprise application by breaking out functional components into a modern stack using NestJS, TypeScript, and GraphQL.
Designed & implemented an async database synchronization procedure to push/pull customer data from a legacy DB into a SQL-backed web application stack in real-time.
Built and upgraded complicated reporting and analysis modules for investment portfolio managers based on strict logic in a tightly regulated environment.
Preserved data accuracy and software reliability in a highly sensitive context—people's life savings—and always put the customer experience first.
Wrote extensive SQL views and exposed REST APIs for the customer account maintenance portal built in a popular web application framework.
Performed analysis on large customer datasets in both relational databases and NoSQL (MongoDB) to ensure quality and normalization of key items like addresses, statements, account balances, transactions, etc.

INDEPENDENT WEB DEVELOPER   *June 2006 – June 2012*
Rocket Designs — Bellingham, WA

Provided web design & development services for community projects and small businesses.
Customized an open-source Ruby on Rails web app to manage & display live results for a series of bicycle races with hundreds of unique participants and categories of riders.
Learned industry grade graphic design programs such as Photoshop & Illustrator and provided vector art services for custom logos.

JR. WEB DEVELOPER   *Sept 2006 – Feb 2008*
Socrates Group Consultancy (FKA DeWaard & Jones) — Bellingham, WA

Maintained the integrity of a custom CMS framework shared among all clients, as the only employee dedicated to the quality level of a shared codebase.
Built out a complicated fleet management web application for a crane company using C#, ASP.NET, and SQL Server.
Pair programmed with several bright developers to learn best practices in object-oriented languages and normalized relational database design.

PROGRAMMER   *June 2004 – Aug 2006*
Engineering Design Automation — Bellingham, WA

Built an automated generator of SolidWorks 3D (CAD) drawings using VB.NET driven by inputs from Excel workbooks.
Created accurate engineering models of real-world products then programmatically scaled them based on flexible parameters.
Managed a project for a new client seeking rapid prototyping of new ASIC designs based on their customer demand.