# Jonathan Schweder

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## SUMMARY

Software Engineer with 15+ years of experience specializing in Developer Infrastructure, API Design, and Distributed Systems at AWS and MongoDB. Expert in building high-scale platforms with a proven track record of scaling systems to billions of requests. Passionate about building services and APIs that solve real-world problems, performance optimization, and building robust infrastructure. Ready to contribute as a Software Engineer with a strong ownership-driven mindset.

## EXPERIENCE

**MongoDB, Software Engineer - Platform Tools & Services**

Apr 2025 - Present

- Architect internal self-service tools and APIs using Go and Kubernetes to accelerate deployment velocity, leveraging Crossplane and Argo CD for automated infrastructure provisioning.
- Build automated maintenance workflows and CI/CD enhancements with Argo Workflows and Drone CI, ensuring zero-downtime deployments and reducing manual toil.
- Integrate LLMs (OpenAI, Anthropic) via internal APIs to enhance developer support tools, improving incident resolution speed and developer self-service capabilities.
- Implement distributed tracing and metrics collection using OpenTelemetry, Prometheus, and Grafana, providing deep visibility into platform health and performance.
- Lead cross-team design reviews for global services, ensuring high standards for API consistency, security (Okta, OIDC), and developer ergonomics.

**Amazon Web Services (AWS), Software Development Engineer - AWS Lambda**

Apr 2024 - Apr 2025

- Owned Lambda function state transition services using Java and Go, serving millions of developers and processing billions of requests weekly via the Lambda Control Plane API.
- Mentored 4 engineers on core Lambda architecture and operational excellence, improving team code review velocity by 25% and fostering a culture of high-quality engineering.
- Migrated legacy monitoring to a high-cardinality stack using AWS Kinesis and Athena, reducing MTTA by 40% and enabling real-time performance insights.
- Built ranking algorithm using LLMs and traditional machine learning techniques to optimize Network Engineers' work through hundreds of daily tickets.
- Architected an automated capacity deployment system with CloudFormation to accelerate region launches by 30% and reduce manual operations by 90%.

**Amazon Web Services (AWS), Systems Development Engineer - AWS Networking**

Mar 2020 - Apr 2024

- Maintained a high-concurrency internal workflow engine managing hundreds of thousands of network devices daily, leveraging Python for backend services.
- Built data pipelines using AWS Glue, EMR, and Kinesis to process network telemetry, enabling automated detection and remediation of large-scale network events.
- Automated compute capacity deployment globally using AWS CDK and Ruby, streamlining infrastructure provisioning and reducing regional deployment risk.
- Developed an automated ticket prioritization system, reducing Large Scale Events (LSEs) by 20% through better impact analysis.
- Served as a platform subject matter expert for global network events, developing automation tools to perform rapid traffic-shifting and mitigate customer impact.

### Pantacor, Software Engineer - IoT & Infrastructure

Feb 2019 - Mar 2020

- Developed an end-user-facing IoT fleet management platform using Go and Django, providing a robust runtime and deployment interface for edge computing.
- Built responsive dashboards with Vue.js and Streamlit, enabling developers to monitor and manage large-scale IoT deployments with real-time feedback.
- Managed Kubernetes clusters across AWS, Google Cloud, and Digital Ocean, optimizing for cost and scalability while maintaining high availability.
- Integrated OpenTelemetry for distributed tracing and Grafana for metrics, reducing MTTR by 30% and improving platform reliability.
- Architected automated build pipelines for multi-architecture (ARM/x86) Docker images, ensuring consistent delivery across diverse IoT hardware.

### Eventials, Systems Analyst - Backend & Integrations

Jul 2018 - Feb 2019

- Led the migration from a legacy monolith to a microservices architecture using Python and Node.js, increasing feature velocity and system resilience.
- Designed Embedded Linux applications for real-time ultrasound streaming, building backend services to support high-bandwidth diagnostics.
- Developed and maintained streaming interfaces using Angular.js, Vue.js, and TypeScript, ensuring a seamless experience across medical devices.
- Developed complex API integrations with third-party medical software, increasing lead generation by 20% through automated data synchronization.
- Introduced automated testing and containerization with Docker to the development workflow, significantly reducing deployment errors.

### Bludata Software, Software & Web Developer

Sep 2014 - Jul 2018

- Developed web applications for government agencies using PHP (Laravel) and Node.js, focusing on high-quality, reliable software delivery.
- Designed and implemented an auditing application for driving exams on Embedded Linux, successfully deployed in 200+ schools.
- Streamlined deployment pipelines using Jenkins, reducing manual intervention and improving deployment stability.
- Designed and optimized relational database schemas (PostgreSQL, Sybase) to handle high volumes of examination data with strict ACID requirements.
- Fostered a culture of code quality and best practices through Agile/Scrum methodologies, conducting technical training for junior developers.

### Pomerplast, Software Developer

Feb 2010 - Sep 2014

- Maintained and extended the company's internal ERP system using Delphi and Sybase IQ, improving security and reliability through effective software solutions.
- Managed Windows and Linux server clusters, implementing robust backup and disaster recovery strategies for business-critical data.
- Managed internal technical infrastructure budgets, including networking, server clusters, and camera systems, ensuring cost-effective operations.
- Owned the end-to-end development of internal tools, from requirement gathering with stakeholders to production deployment and support.
- Automated reporting and inventory tracking processes, reducing manual data entry errors and providing real-time business insights.

## EDUCATION

**FURB - Fundação Universidade Regional de Blumenau**

Bachelor's Degree • Computer Science

**XP Educação**

Master of Business Administration (MBA) • Software Engineering

## LICENSES & CERTIFICATIONS

- AWS Cloud Solutions Architect
- Google Data Analytics Professional Certificate

## SKILLS

- **Languages:** Go, Python, TypeScript, Node.js, Java, SQL, Bash, Ruby, PHP, JavaScript, HTML/CSS
- **Cloud Infrastructure:** AWS (Lambda, EKS, S3, RDS, DynamoDB, VPC, CDK, CloudFormation, Kinesis, Athena, IAM), Google Cloud, Kubernetes, Docker, Crossplane, Terraform, Terragrunt
- **DevOps & Observability:** GitOps (Argo CD), CI/CD (GitHub Actions, Jenkins, Drone, Argo Workflows), OpenTelemetry, Prometheus, Grafana, NGINX, Git, Helm, Ansible
- **Data & Databases:** MongoDB (Atlas), PostgreSQL, Redis, DynamoDB, Amazon DocumentDB, SQLite, Data Modeling, Pandas, NumPy
- **AI/ML:** LLMs (OpenAI, Anthropic)
- **Architecture & Engineering:** System Design & Architecture, Distributed Systems, Scalability, API Design (REST/gRPC), Microservices, Serverless, Infrastructure as Code (IaC), Developer Experience (DX), Security (OAuth2, OIDC, Okta), IoT, Embedded Linux
- **Testing & Quality:** Pytest, Selenium, Performance & Stress Testing, Unit/Integration/Regression Testing, Agile/Scrum

## HONORS & AWARDS

- **AWS Ownership Award**, Amazon Web Services: Recognized for exceptional ownership and delivering high-impact solutions for global customers.
- **Startup Incubation Acceptance**, Instituto Gene Project "Eplus": Accepted for startup incubation program focused on educational technology.