

Jonathan Schweder

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SUMMARY

Developer Experience Engineer with 15+ years building developer-facing APIs, SDKs, and tooling at AWS and MongoDB. Passionate about making complex systems intuitive and productive — from designing self-service platforms and internal libraries to integrating LLMs into developer workflows. Strong track record elevating developer productivity through documentation, clear abstractions, and feedback loops, with deep expertise in Python, distributed systems, and scaling platforms to billions of requests. Empathetic to developers as users and driven to translate customer patterns into reusable, well-documented tooling.

EXPERIENCE

MongoDB, Software Engineer - Platform Tools & Services

May 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 - May 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.