

Jonathan Schweder

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Professional with 13+ years of experience designing, developing, and deploying robust software solutions. Skilled in cloud native development and DevOps practices. Passionate about writing clean, efficient code in collaboration with teams and leadership to build high-quality products. Seeking Software Engineer, Site Reliability Engineer or similar roles where I can demonstrate my experience and full capacity to deliver the best experience to customers.

EDUCATION

Master of Business Administration (M.B.A.) - Software Engineering

XP Educação, Belo Horizonte, Brazil, Jun 2018 - Oct 2020

Bachelor's Degree - Computer Sciences

FURB - Fundação Universidade Regional de Blumenau, Blumenau, Brazil, Jan 2010 - Jan 2015

Google Data Analytics Professional Certificate

Google, May 2023 – Oct 2023

EXPERIENCE

Amazon Web Services, Dublin, Ireland

System's Development Engineer, Mar 2020 – Present

AWS is the biggest cloud provider in market today. Offering more than 200 cloud services from data centers globally, including computing power, storage options, and networking capabilities. I'm part of the AWS Networking team, were thousands of engineers like me work hard to build, maintain and scale the network world-wide to AWS teams and our customers.

Key responsibilities:

- Improve and maintain existing workflow engine platform, written in Python and running on a mixed environment of cloud native and on-premise capacity. The system is used by thousands of Network Engineers to operate hundreds of thousands of network devices to build, maintain, mitigate and remediate network issues within AWS.
- Analyze operational problems based on ticketing data, metrics, other team members experience and weekly operational reviews with the objective to find gaps, propose and develop solutions to effectively address those problems and reduce Ops load.
- Design and build systems and tools using AWS cloud native solutions to improve the development velocity of the team, automating most common tasks and data collection.
- Stay on-call once per month for one week, being available 24/7 during this time, mitigate impactful issues and work to reduce number of open tickets, improve alarms and keep the team aware of current Ops situation.

Key achievements:

- Automated internal compute capacity deployment by integrating with dozens of internal APIs and reducing manual actions in 90% and time to build new regions by 30% globally.
- Created system to automatically prioritize tickets based on network impact, reducing in 20% the number of large-scale events that impact external customers.
- Reduced Year-over-Year infrastructure costs in 20% by collecting data and rightsizing instance types from thousands of internal AWS accounts, owned by hundreds of teams.

Skills: Python, Go, Ruby, Typescript/Javascript, Shellscript, SQL, Flask, SQLAlchemy, Linux, EC2, Lambda, ECS, Fargate, Docker, Kubernetes, Linux, CloudFormation, CDK, EventBridge, SNS, SQS, Step Functions, SWF, Amplify, API Gateway, CloudFront, Route 53, DMS, DynamoDB, RDS, PostgreSQL, Timestream, S3, PySpark, Glue, QuickSight, Athena, EMR, Amazon SageMaker, CloudWatch.

Pantacor, London, UK

Software Engineer, Feb 2019 - Mar 2020

Pantacor's main product is a fleet management platform that uses containers to deploy software and control the lifecycle of devices. As part of a small team with less than 5 people, my goal was to maintain the backend and the Kubernetes cluster infrastructure of the company.

Key responsibilities:

- Improve existing fleet management platform for IoT devices written in Go, running on a Kubernetes cluster deployed in a multi cloud environment using MongoDB as database.
- Work directly with the CTO of the company to prioritize work based on customers feedback and operational issues.
- Develop new features requested by customers and prioritized with leadership, owning the design, implementation, test, deployment and maintenance of those features.
- Maintain and build infrastructure using Kubernetes to run dozens of microservices written in Go, Typescript and Python.

Key achievements:

- Created monitoring, logging, tracing and notification system using Grafana, Prometheus and TimescaleDB, reducing incident response time in 30%.
- Created tools and templates for other team members to deploy and test code in Kubernetes, reducing the number of bugs found in production in 50%.

Skills: Python, Go, Typescript, Shellscript, SQL, C/C++, Docker, Kubernetes, Kafka, API Gateway, Route 53, CloudFront, Digital Ocean, Google Compute Engine, MongoDB, S3, EFS, Prometheus, Grafana, Nginx, Apache httpd, Redis, Linux server (Debian and Alpine).

Eventials, Blumenau, Brazil

System's Analyst, Jul 2018 - Feb 2019

Eventials offers a platform to stream webinars to enterprise company's customers and employees. My role as System's Analyst was to maintain the platform backend hosted in AWS and build new products using its live streaming technology.

Key responsibilities:

- Maintain existing monolith system built using Django and multiple micro services written in Go, deployed on AWS and on-premise capacity with PostgreSQL as database.
- Migrate monolith codebase to micro services to improve performance and resilience of the platform.
- Create and improve observability in terms of logging, metrics and alarms of running systems to reduce time to mitigate and time to remediate issues.
- Build new products and proof of concepts using current video streaming technology.

Key achievements:

- Designed, developed and deployed embedded Linux application for live streaming of ultrasound exams in dozens of hospitals and clinics, using Go for the application running on the device, publishing files to S3 and preparing files for visualization using Lambda in AWS cloud.
- Developed integrations with multiple enterprise partners to add features and increase leads in 20% Year-over-Year.
- Migrated legacy Django application to Go microservices, increasing the performance, resilience and customers experience.

Skills: Python, Go, C/C++, Javascript/Node.JS, Shellscript, SQL, SQLAlchemy, Flask, EC2, ECS, Fargate, Docker, AWS Stack (EC2, ECS, ECR, S3, RDS, CloudFront, Route 53, and others), Redis, RabbitMQ, Grafana, Prometheus, ELK stack, Nginx, Apache httpd, Jenkins, Linux server (Ubuntu, Debian, Fedora, CentOS, RHEL, SUSE), PostgreSQL, Git, Github, Slack.

Bludata Software, Blumenau, Brazil

Software and Web Developer, Sep 2014 - Jul 2018

Key responsibilities:

- Architect, build, test and deploy software in the company data center to serve customers.
- Work directly with customers to understand their problems, needs and requirements and later communicate them to the team in the form of software requirements.
- Lead and train a team of 4 other software developers to deliver products and services to customers.

Key achievements:

- Developed IoT system running inside vehicles to track and audit driving licensing exams, deployed to hundreds of locations in Brazil.
- Created EAD system for driving schools to store students PII data and schedule classes and reserve vehicles.

Skills: Go, C\C++, Python, PHP, Shellscript, Javascript/Node.JS, Docker, ELK stack, Nginx, Jenkins, Linux server (Ubuntu, Debian, Fedora, CentOS, RHEL), Sybase, Git, HG, Github, Bitbucket, Slack.

Pomerplast, Pomerode, Brazil

Software Developer, Feb 2010 - Sep 2014

Key responsibilities:

- Collaborate with director of finance to build and maintain an internal ERP platform written in Delphi.
- Support internal employees and resolve any issue related to IT infrastructure.
- Maintain a Windows server cluster used for data storage, video cameras storage and internet firewall.

Key achievements:

- Created firewall and proxy server using pfSense server to restrict internal access to internet, increasing security.
- Developed integration with Banks to automatically input payments data, speeding up the process and reducing human errors.

Skills: Windows Server, Remote Desktop Services, Active Directory, Linux server, pfSense, iptables, Sybase.

HONORS & AWARDS**Ownership Award (2022) - Amazon Web Services - GCNA org**

As recognition for demonstrating ownership and deliver ahead of expectation to our customers in AWS.

Startup Accepted for Incubation (2014) - *Instituto Gene*

Project "Eplus" accepted for incubation as a startup, with the goal of democratizing access to high-quality study materials and improving the ability of educators and learners to find necessary resources.