Joey Gibson

Java, Python, Kotlin, Rust, Ruby, C, Smalltalk, Lisp, Go
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Profile

Professional software developer since 1990, with roots in programming dating back to 1983. I've consistently stayed current across multiple programming languages and platforms throughout my career. In 2002, I co-authored Ant Developers Handbook and was an active conference speaker for several years. My work includes contributions to major open source projects like Ruby on Rails and Docker, as well as commercial software on the iOS App Store. I specialize in rapidly assimilating new technologies and applying them to solve practical problems.

Open Source Contributions

- JSONQuill - Structured editor for JSON https://github.com/joeygibson/jsonquill
- YAMLQuill - Structured editor for YAML https://github.com/joeygibson/yamlquill
- VerticaReader - Converter for Vertica binary files https://github.com/joeygibson/verticareader
- Verticat - A cat utility for Vertica binary files https://github.com/joeygibson/verticat
- chip-8 - A simple CHIP-8 emulator https://github.com/joeygibson/chip-8
- Elsy - Build tool using Docker https://github.com/cisco/elsy

- Docker - Two commits to the project: https://github.com/moby/moby/commits?author=joeygibson
- ActiveRecord adapter for SQL Server (part of early version of Ruby on Rails)
- Pocket Smalltalk, Lead Developer until January 2003

Experience

2013 - present

Cisco Systems, Inc. – Software Engineering Technical Leader

- Key contributor to XDR (Extended Detection and Response) cloud-native data ingestion platform, processing security events from 10+ enterprise security products including CrowdStrike, Microsoft Defender, Cisco Secure Network Analytics (StealthWatch), and Cisco Secure Cloud Analytics.
- Contributed to a codebase of 60+ AWS Lambda functions in Python 3.12 for event-driven data transformation pipelines using S3, SNS, SQS, and EventBridge, with comprehensive documentation and monitoring.
- Designed and implemented OCSF (Open Cybersecurity Schema Framework) 1.0 and 1.4 compliant transformations for multiple security data sources, ensuring interoperability and standardization across the security ecosystem.
- Built enrichment system that adds contextual information from device insights, reputation services, and threat intelligence to security findings.
- Delivered substantial contributions with 360+ commits addressing 220+ engineering tickets since 2023, including critical bug fixes, performance optimizations (large file memory management), and data quality improvements.
- Pivotal member of the Central Data Store team, which delivered a high-performance centralized Vertica database, loading data from multiple distributed StealthWatch (SNA) flow collectors.
- Member of the architecture team, designing and building applications in Go, Java, Kotlin, Scala, Python, Clojure, Ruby, and Bash across on-premises and cloud environments.
- One of three main developers working on Elsy, a unified build tool for Stealthwatch products (open source project).

- Designed and built multiple Go-based services for network telemetry data collection and processing:
    - Protobuf-based data collection from 0MQ sockets with compression
    - On-prem to cloud data transfer services
    - Kotlin service for Protobuf to Parquet conversion for analytics
    - Configuration export service for cloud migration
    - High-performance NetFlow collector prototype using the LMAX Disruptor pattern
- Contributed to next generation NetFlow collection engine in C and cloud-enabled variants.
- Worked on various aspects of the Stealthwatch suite of programs, most of which are in Java.
- Worked with geographically distributed teams in Prague, Paris, Rolle, Raleigh, and Boxborough.
- Technical mentor and code-reviewer for multiple teams.

2008 - 2013 **GlobalScholar** – Senior Architect

- Specification, architecture, and development in Java and Flex across both front and back of the system.
- Database schema definition and migration scripts.
- Implemented and managed build process and CI server. Our build tool was Maven,. I implemented the Maven release-plugin's features in Ant, which gave us the flexibility that Maven didn't provide.
- Filled in for department director in his absence.
- Technical mentor and code-reviewer for other team members.

2004 - 2008 **Jobkabob, Inc.** – Chief Technologist

- Designed and implemented all Jobkabob software, including all user interface and back-end processes.
- Designed and built user interface using Tapestry and JavaScript.

- Designed and built back-end using Hibernate, Spring and SQL with a MySQL database, deployed in the JBoss application server, running on Linux systems.
- Designed and built indexing and searching server for all jobs and job seekers in our system using Lucene.
- Rebuilt a portion of the Jobkabob functionality in Ruby on Rails.

2001 - 2004 **BravePoint, Inc.** – Senior Consultant/Instructor

- As a consultant at BravePoint, I worked for several companies and on various projects.
- Architect/Lead Developer/DBA/Group Mentor on C#/ASP.Net project
- Second architect on large web-enablement project for the State of Georgia using Java and BEA WebLogic 7 that had to be HIPAA compliant
- Technical mentor to the entire team
- One of four team leads; performed design and code reviews for all team members
- Designed and implemented Web Service based back-end for Interactive Voice Response (IVR) system
- Designed and implemented a Web Service solution to integrate business functionality for Expedia.com to back-end legacy airline ticketing systems
- Designed and implemented a web site solution using Java and Apache Struts to dynamically host content for 45 subsidiary company web sites on a single server, with content sharing capabilities and full product catalog access, including shared products
- Co-authored BravePoint training materials on Enterprise JavaBeans, Advanced Servlets & JSP
- Instructed BravePoint training classes for students from several companies
- Designed and implemented Web Service in Java with clients written in Java and Smalltalk

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