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DQSevilla

David Sevilla

Experience

May 2022 – Present **Software Engineer II**, *Datadog*, New York, NY.

Continuing to work on the API Frameworks Core team.

- Wrote and open-sourced a **JSON:API**-format compliant serialization library. `[Go]`
- Designed a CLI for creating, managing, and deploying API microservices. `[Go, Bazel]`
- Contributed several features to a new in-house web framework including a gRPC auth client, route registration, an error handling utilities. `[Go]`
- Lead a group of engineers called the API Standards Guild to improve Datadog's API design by authoring RFCs, giving advice, and writing tools to enforce the guidelines.

Mar 2020 – May 2022 **Software Engineer**, *Datadog*, New York, NY.

Returned to the API Frameworks Team focusing on public API tooling and developer experience.

- Migrated hundreds of engineers from using an unreliable VM for local development to using self-service kubernetes namespaces called devkubes. `[Python, Bazel, Go]`
- Designed a framework for running health checks and API tests against canary deployments of our web backend, which rolls back production deploys upon failure. `[Go]`
- Created an API for restricting access to Datadog using IP address allow lists. `[Python]`
- Mentored several interns and new grad engineers, helping them finish medium-sized projects.

Sep 2020 – Dec 2020 **Software Engineer Intern**, *Datadog*, New York, NY.

Supported the beginning stages of a smarter edge infrastructure for web APIs.

- Implemented a service proxy sidecar using **Envoy**'s gRPC API for dynamic service discovery, rate limiting, circuit breaking, and authentication. `[Python, Go, Docker]`
- Instrumented sidecar metrics and implemented configuration file templating and generation.

Jun 2020 – Aug 2020 **Software Engineer Intern**, *Facebook*, Menlo Park, CA.

Cut behavior testing time for custom search result rankers from days to minutes.

- Designed efficient Python bindings for a generic search result ranker. `[C++]`
- Wrote a library to execute the ranker on large search result datasets. `[Python, SQL]`
- Improved initial ranker execution speed by 500% using parallel batch processing.
- Exposed both APIs to a custom **Jupyter Notebook** kernel, improving developer agility.

Jun 2019 – Aug 2019 **Software Engineer Intern**, *JPMorgan Chase*, Jersey City, NJ.

Saved 300 hours of yearly effort by creating a weekly financial forecasting dashboard.

- Augmented a RESTful web service with **Spring Boot** and **Hibernate**. `[Java, SQL]`
- Migrated the code base into distinct microservices, and deployed with **Cloud Foundry**.

Jun 2018 – Aug 2018 Provided transparency for calculation data to users of a financial stress-event simulator.

- Implemented a **Hadoop** big data pipeline using **Spark** and **Impala**. `[Python]`
- Redirected simulator debug info dumps to this pipeline. `[Java, Bash, SQL]`

Education

Jan 2018 – Dec 2020 **M.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
GPA: **3.56/4.0**

- Accepted to an accelerated masters program.

Aug 2016 – May 2020 **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
GPA: **3.75/4.0**
Minor in *Pure and Applied Mathematics*.

- President of Upsilon Pi Epsilon (Computer Science Honors Society).

Skills

Languages Go, Python, C, Java, OCaml, Coq, JavaScript, Bash, SQL

Technologies GNU/Linux, Git, Bazel, Docker, Kubernetes, Helm, AWS CLI, Temporal