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DQSevilla

# David Sevilla

## Experience

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

Worked on the API Frameworks Core team to provide a next-generation API platform.

- Wrote and **open-sourced** a serialization package for the **JSON:API** format. `[Go]`
- Implemented several features for a custom backend web framework including schema validation, request body decoding, secrets access, and authentication flows. `[Go]`
- Designed a CLI for creating, managing, and deploying API microservices. `[Go, Bazel]`
- Lead a group of engineers called the API Standards Guild to improve Datadog's API design by authoring RFCs, holding office hours, and writing tools to enforce the guidelines.

Mar 2021 – May 2022 **Software Engineer**, *Datadog*, New York, NY.

- 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 behavior tests against canary deployments of our web backend, which stops deploys upon failure. `[Go, k8s]`
- Wrote an API for restricting access to Datadog via IP address **allow-lists**. Spoke directly with customers to iterate on the design and implement their feedback. `[Python]`
- Mentored dozens of interns and new engineers, helping them finish medium-sized projects.

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

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

- Instrumented Envoy Proxy sidecars for dynamic service discovery. `[Go, k8s]`
- Built a tool to render and merge text templates into Envoy configuration files. `[Go]`
- Improved the reliability and performance of several core Datadog APIs. `[Python]`

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

Reduced behavior testing time for search result rankers from several days to minutes.

- Designed efficient Python bindings for a generic search result ranker. `[C++]`
- Wrote a library and efficient queries to run the ranker on large 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 experience.

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.

- Wrote new REST APIs for a web service using Spring Boot and Hibernate. `[Java, SQL]`
- Migrated essential parts of the web service into distinct cloud-deployed microservices.

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

- Implemented a big data pipeline and visualization for understanding the simulator's computations granularly, using Spark, Impala, and Tableau. `[Java, Python, mySQL]`

## 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, JavaScript, OCaml, Bash, SQL

Technologies GNU/Linux, Git, Bazel, Datadog, Kubernetes (k8s), Helm, Temporal