David Sevilla

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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
GPA: **3.56/4.0** — **M.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
- ○ Accepted to an accelerated masters program.

Aug 2016 – May 2020
GPA: **3.75/4.0** — **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.

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