

# David Sevilla

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DQSevilla

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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 secrets access, route registration, schema validation, authentication flows, and more. [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]

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## 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).

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## Skills

Languages Go, Python, C, Java, JavaScript, OCaml, Bash, SQL  
Technologies GNU/Linux, Git, Bazel, Datadog, Kubernetes (k8s), Helm, Temporal