

# David Sevilla

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## Experience

- May 2022 – Present **Software Engineer II**, *Datadog*, New York, NY  
Worked on a platform and set of developer tools for building API backend microservices.
  - Wrote and **open-sourced** a serialization package for the **JSON:API** format. [Go]
  - Carefully designed a domain-specific language for creating HTTP services and wrote generators to output OpenAPI specs and boilerplate HTTP server code. [Go]
  - Wrote core packages of our in-house backend web framework to handle route registration, schema validation, parameter parsing, thread-safe header access, and more. [Go]
  - Built a CLI for creating, managing, and deploying API microservices. [Go, Bazel]
  - Participated in on-call and internal support rotations. Handled incidents, wrote postmortems, and generally improved the reliability and observability of our web backends.
  - 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 and published an API for restricting access to Datadog via IP address **allow-lists**. Worked directly with customers to iterate on the user experience. [Python]
  - Mentored a dozen 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 hours to minutes.
  - Designed efficient Python bindings for a generic search result ranker. [C++]
  - Wrote a library to consume the bindings which reduced ranker testing time by 200% with parallel batch processing and optimized search result queries. [Python, SQL]
  - Exposed both high and low level APIs through a custom Jupyter notebook kernel.
- Jun 2019 – Aug 2019 **Software Engineer Intern**, *JPMorgan Chase*, Jersey City, NJ
- Jun 2018 – Aug 2018
  - Wrote REST endpoints for a financial forecasting service with Spring Boot and Hibernate (an ORM). Moved parts of the service into cloud-deployed microservices. [Java, SQL]
  - Implemented a data pipeline for visualizing computations of a financial risk simulator using Spark, Tableau, and various shell scripts. [Java, Python, Bash, SQL]

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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 this accelerated masters program due to my academic performance.
- 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**

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## Skills

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