David Sevilla

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Experience

Jan 2025 – Present   **Senior Software Engineer**, _Rokt_, New York, NY

Developed identity graphs to improve ad-relevancy ML models and attribution precision.
- ○ Implemented the **Partition-Aware Connected Components** algorithm in Spark to efficiently link hundreds of billions of person records into an identity graph. `[Scala]`
- ○ Created foundational libraries for standardization and fuzzy-matching of PII records to support probabilistic data matching. `[Scala]`
- ○ Instrumented several Spark jobs and pipelines to evaluate 3rd party data vendors, collect accurate graph metrics, and cut graph build times significantly. `[Python, Bash]`

May 2022 – Nov 2024   **Software Engineer II**, _Datadog_, New York, NY

Worked on an internal developer platform to build API backend microservices.
- ○ Wrote and **open-sourced** a serialization package for the **JSON:API** format. `[Go]`
- ○ Designed a domain-specific language for defining HTTP services. Wrote packages and build tools to generate server code, dependency injection code, and API docs. `[Go, Bazel]`
- ○ Shipped core components of a backend web framework used by over 400 services, including schema validation, error handling, thread-safe header access, and more. `[Go]`
- ○ Participated in on-call and internal user support rotations. Resolved incidents, wrote postmortems, and improved the reliability of our web backends.

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

Improved API frameworks, developer tooling, and public API standards accross the company.
- ○ Designed a framework for running health checks and API contract tests against canary versions of the web app, which halted deployments 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, SQL]`
- ○ Lead a group of engineers called the API Standards Guild to improve web API design across Datadog. Authored RFCs, held office hours, and wrote enforcement tools.

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 search result ranker library. `[C++]`
- ○ Wrote a wrapper library that reduced testing time by 200% with parallel batch processing and optimized search result queries. `[Python, SQL]`

Jun 2019 – Aug 2019
Jun 2018 – Aug 2018   **Software Engineer Intern**, _JPMorgan Chase_, Jersey City, NJ
- ○ 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]`

Education

Jan 2018 – Dec 2020
GPA: **3.56/4.0**   **M.S. Computer Science**, _Stevens Institute of Technology_, Hoboken, NJ
- ○ Accepted to this accelerated masters program due to my academic performance.

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_
- ○ Worked as a teaching assistant for CS courses during most semesters.

Skills

Languages   Go, Scala, Python, Java, C, JavaScript, Lua, OCaml, Bash, SQL

Technologies   GNU/Linux, Git, Datadog, Kubernetes, Helm, Bazel