

David Sevilla

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Education

- Jan 2018 – Dec 2020 **M.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
○ GPA: **3.66/4.0**. Part of an accelerated program.
- Aug 2016 – May 2020 **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
Minor in *Pure and Applied Mathematics*.
○ GPA: **3.75/4.0**. On Dean's List most semesters.
○ President of Upsilon Pi Epsilon (Computer Science Honors Society).

Experience

- Sep 2020 – Dec 2020 **Software Engineer Intern**, *Datadog*, New York, NY.
(current) Working in the Web Reliability team.
- Jun 2020 – Aug 2020 **Software Engineer Intern**, *Facebook*, Menlo Park, CA.
Cut behavior testing time for custom search result rankers from days to minutes.
○ Designed efficient Python bindings for a generic search result ranker. [C++]
○ Wrote a library to execute the ranker on large search datasets from *Hive*. [Python, SQL]
○ Improved total ranker execution speed by 500% with parallel batch processing.
○ Exposed both APIs to a custom *Jupyter Notebook* kernel, improving developer agility.
- 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.
○ Augmented a RESTful web service with *Spring Boot* and *Hibernate*. [Java, SQL]
○ Migrated the code base into distinct micro-services, and deployed with *Cloud Foundry*.
- Jun 2018 – Aug 2018 **Software Engineer Intern**, *JPMorgan Chase*, Jersey City, NJ.
Provided transparency for calculation data to users of a financial stress-event simulator.
○ Implemented a *Hadoop* big data pipeline using *Spark* and *Impala*. [Python]
○ Redirected simulator debug info dumps to this pipeline. [Java, Bash, SQL]
- Sep 2017 – Aug 2020 **Course Assistant**, *Stevens Institute of Technology*, Hoboken, NJ.
(semesterly) ○ Held office hours, lab hours, and lectures. Designed, graded, and automated assignments.
○ Worked in both theoretical and programming-heavy computer science courses.

Projects

- Sep 2019 – May 2020 **Content Management System**, *Life Skills Software*, Stevens Senior Design.
Service to upload and review educational media supporting special-needs classes.
○ Designed the content upload API, models, and object storage logic. [Go, PSQL, S3]
○ Implemented a role-based authentication model via *JWT* based middleware. [Go]
○ Achieved significant code coverage. Ran tests with *Docker* and *Gitlab CI/CD*. [Go]

Relevant Coursework

Computer Science Advanced Data Structures and Algorithms, Compilers, GPU Programming, Formal Verification, Concurrent Programming, Advanced UNIX Programming, Systems Administration, Type Systems, Web Programming I and II.

Skills

Languages Java, C, Python, OCaml, Go, JavaScript, Bash, SQL/PSQL
Technologies GNU/Linux, Git, Mercurial, Docker, AWS CLI (EC2, EBS, S3)