

David Sevilla

(908) 300-7887
me@davidqsevilla.com
david-sevilla
DQSevilla

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 – Dec 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

- Jun 2020 – Aug 2020 **Software Engineer Intern**, *Facebook*, Menlo Park, CA.
(current) Cut behavior testing time for custom search result rankers from days to hours.
○ Improved developer agility with Python bindings for search result rankers and exposed the API to a custom **Jupyter Notebook** kernel for familiarity. [C++, Python]
○ Provided a wrapper library for executing the Python rankers on large sets of search results from **Hive** tables, enabling comprehensive local behavior analysis. [Python, SQL]
- 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]
- Spring 2019 **Type Inference Engine**, *CS 810 – Type Systems*, Stevens.
○ Implemented Hindley-Milner type inference with Martelli-Montanari unification on a small functional programming language with references, lists, recursion, and more. [OCaml]

Relevant Coursework

Computer Science Advanced Data Structures and Algorithms, Compilers, GPU Programming, Formal Verification, Concurrent Programming, Advanced UNIX Programming, Reverse Engineering, 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)