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DQSevilla

David Sevilla

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 (current) **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 (semesterly) **Course Assistant**, *Stevens Institute of Technology*, Hoboken, NJ.
- 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)