David Sevilla

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DQSevilla

Education

Jan 2020 – Dec 2020 **M.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.

Aug 2016 – May 2020 **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
Minor in *Pure and Applied Mathematics*.
- GPA: **3.76/4.0**. (Dean's List).
- President of Upsilon Pi Epsilon (Computer Science Honors Society).

Experience

Jun 2020 – Aug 2020 **Software Engineer Intern**, *Facebook*, Menlo Park, CA.

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 **REST**ful web service with **Spring Boot** and **Hibernate**. `[Java, SQL]`
- Designed responsive web pages and modular components using **React**. `[JS]`
- 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]`
- Created a **REST**ful web service in **Flask** and visual calculation tree. `[JS, Python]`
- Integrated code base with existing simulator project and services. `[Java, Bash, SQL]`

Sep 2017 – Present (semesterly) **Course Assistant**, *Stevens Institute of Technology*, Hoboken, NJ.
- Holding office hours, lab hours, and lectures, and both grading and designing assignments.
- Worked in both theoretical and programming-heavy computer science courses.

Projects

Spring 2019 **Type Inference Engine**, *CS 810 Type Systems*, Stevens.
- Developed a type inference algorithm from scratch for a small programming language with references, lists, recursive functions, and more. Used Martelli-Montanari unification. `[OCaml]`

Spring 2018 **Virtual Memory Simulator**, *CS 492 Operating Systems*, Stevens.
- Simulates various page replacement algorithms with efficient, extensible data structures for main memory, programs, and page tables. Captures performance analytics. `[C]`

Spring 2017 **Word Crimes**, *DuckHacks*, Stevens, Won *Best Overall*.
- Challenging word association game with minimalist front-end design.
- Built custom word vector clustering algorithm on top of Google's **word2vec**. `[JS]`

Relevant Coursework

Computer Science Advanced Data Structures and Algorithms, Operating Systems, Concurrent Programming, Compilers, Agile, Relational Databases, Web Development, Advanced Unix Programming.

Mathematics Discrete Mathematics, Linear Algebra, Probability and Statistics, Abstract Algebra.

Skills

Languages Java, Python, C, JavaScript, OCaml, Bash, HTML, CSS/SASS, SQL

Frameworks Express, React, Spring Boot, Flask, NumPy, Pandas

Technologies GNU/Linux, Git, Node, Cloud Foundry, Hadoop, Spark, MongoDB