

David Sevilla

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

Education

- Aug 2016 – May 2020 **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
Pursuing minor in *Pure and Applied Mathematics*.
- GPA: **3.8/4.0**. Dean's list since Fall 2016.
 - Upsilon Pi Epsilon (CS honors society) member since Spring 2018.
 - Activities: Computer Science, Hobby Robotics, Game Development clubs.

Experience

- Jun 2018 – Aug 2018 **Software Engineering Intern**, *JPMorgan Chase*, Jersey City, NJ.
Provided transparency for *calculation data* to users of a financial stress event *scenario manager*.
- Implemented a **Hadoop** big data pipeline using **Spark** and **Impala**. [Python]
 - Designed data sources and feature-rich **Tableau** dashboards.
 - Created a visual calculation dependency tree. [HTML, CSS, JavaScript]
 - Created a **REST**ful web service with **Flask** to link the dashboards with the tree.
 - Integrated code base with existing projects and services. [Java, Bash, SQL]
- Sep 2017 – Present **Student Course Assistant**, *Stevens Institute of Technology*, Hoboken, NJ.
- Holding office hours, lab hours, and lectures, and both grading and designing assignments.
 - Courses: Intro to Web Development, Discrete Structures, Automata and Computation, Graduate Intro to CS/Data Structures and Algorithms.

Projects

- Spring 2018 **Virtual Memory Simulator**, *CS 492 Operating Systems*.
- Simulates various page replacement algorithms and general memory access.
 - Designed efficient, extensible data structures to logically maintain memory state.
 - Captured performance analytics and automated algorithm comparison testing.
- Spring 2017 **Word Crimes**, *DuckHacks*, Stevens Hosted, Google and JPMorgan sponsored.
Hosted at imadethis.website/wordcrimes – *Code on GitHub*
- Challenging word association game that won *Best Overall*.
 - Custom word vector clustering algorithm, built on top of Google's **word2vec**.
 - Clean, minimalistic, mobile first front-end design.

Coursework

- Computer Science Data Structures and Algorithms, Advanced Algorithm Design, Operating Systems, Programming Languages, Concurrent Programming, Web Programming, Database Management Systems, Software Development Process (Agile).
- Mathematics Discrete Mathematics, Linear Algebra, Probability and Statistics.

Skills

- Technologies GNU/Linux, Git, Subversion, Hadoop, Spark, Flask
- Languages Java, Python, C, Bash, JavaScript, SQL, HTML, CSS