

David Sevilla

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Education

- Aug 2019 – 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: **3.75/4.0**. Dean's list since Fall 2016.
 - President of Upsilon Pi Epsilon (Computer Science Honors Society).

Experience

- Jun 2019 – Aug 2019 **Software Engineer**, *JPMorgan Chase*, Jersey City, NJ.
Created a dashboard for weekly financial forecast validation.
 - Augmented a **RESTful** 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**.
 - Frequently discussed requirements with business users and decided on an MVP.
- Jun 2018 – Aug 2018 **Software Engineer**, *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 **RESTful** 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 **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 2018 **Virtual Memory Simulator**, *CS 492 Operating Systems*, Stevens.
 - 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.
 - Challenging word association game. Won *Best Overall*.
 - Custom word vector clustering algorithm, built on top of Google's **word2vec**.
 - Clean, minimalist, mobile-first front-end design.

Relevant Coursework

- Computer Science Advanced Data Structures and Algorithms, Operating Systems, Concurrent Programming, Machine Learning, Agile Development, Relational Databases, Web Development.
- 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