

# David Sevilla

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DQSevilla

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## Education

- 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).
  - Accepted for M.S. in Computer Science (accelerated): Jan 2020 – Dec 2020.

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## 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**.
  - Engaged in fully agile development process with business-user interaction.  
Ultimately saves 6 hours of manual effort per week.
- 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.

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## 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.

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## 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.

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## 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