

David Sevilla

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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: **3.76/4.0**. 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.

Experience

- Jun 2019 – Aug 2019 **Software Engineer Intern**, *JPMorgan Chase*, Jersey City, NJ.
Created a dashboard for weekly financial forecast submissions. Saves 300 hours of yearly effort.
- 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 frequent client interactions.
- 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 **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 (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, 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