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: **3.7/4.0**. (Dean's List most semesters).
- 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 **React** components. `[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]`
- Integrated code base with existing simulator project and services. `[Java, Bash, SQL]`

Sep 2017 – Aug 2020 (semesterly) **Course Assistant**, *Stevens Institute of Technology*, Hoboken, NJ.
- Held office hours, lab hours, and lectures. Designed, graded, and automated assignments.
- Worked in both theoretical and programming-heavy computer science courses.

Projects

Sep 2019 – May 2020 **Content Management System**, *Life Skills Software*, Stevens Senior Design.
Platform to upload and review educational media supporting special-needs students and teachers.
- Designed the content upload API, models, and object storage logic. `[Go, Postgres, S3]`
- Implemented a role-based authentication model via **JWT** based middleware. `[Go]`
- Achieved full code coverage. Ran tests with **Docker** and **Gitlab CI/CD**. `[Go]`

Spring 2019 **Type Inference Engine**, *CS 810 Type Systems*, Stevens.
- Implemented Hindley-Milner type inference with Martelli-Montanari unification on a small programming language with references, lists, recursion, and more. `[OCaml]`

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, Advanced UNIX Programming, Agile, Compilers, Concurrent Programming, GPU Programming, Relational Databases, Systems Administration, Type Systems, Web Development I and II.

Skills

Languages Java, C, Python, Go, OCaml, JavaScript, Bash, SQL

Frameworks Gin, Express, React, Spring Boot, NumPy

Technologies GNU/Linux, Git, Docker, AWS CLI (EC2, EBS, S3), NodeJS, Spark