David Sevilla

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DQSevilla

Education

Jan 2018 – Dec 2020 **M.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
- GPA: **3.66/4.0**. Part of an accelerated program.

Aug 2016 – Dec 2020 **B.S. Computer Science**, *Stevens Institute of Technology*, Hoboken, NJ.
Minor in *Pure and Applied Mathematics*.
- GPA: **3.75/4.0**. On Dean's List most semesters.
- President of Upsilon Pi Epsilon (Computer Science Honors Society).

Experience

Jun 2020 – Aug 2020 (current) **Software Engineer Intern**, *Facebook*, Menlo Park, CA.
- Improved developer agility by writing Python bindings for search result rankers. Exposed the API to **Jupyter Notebook** with a custom kernel. `[C++, Python]`

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 RESTful web service with **Spring Boot** and **Hibernate**. `[Java, SQL]`
- 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.
Service to upload and review educational media supporting special-needs classes.
- Designed the content upload API, models, and object storage logic. `[Go, PSQL, S3]`
- Implemented a role-based authentication model via **JWT** based middleware. `[Go]`
- Achieved significant 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 functional 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, Compilers, Agile, Concurrent Programming, GPU Programming, Systems Administration, Type Systems.

Skills

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

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