Andrea Stefano Polito

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Education

University of California, Irvine   *Irvine*
Bachelor of Science in Computer Science   Sep. 2019 - Jun. 2023

Technical Skills

Programming: Java, Javascript, Python, BASH, C
Operating Systems: Windows, Linux
Spoken Languages: English (Native), Spanish (Fluent)

Capstone Project

Fabflix

Description

- Ecommerce website where users can purchase movies from a large database
- Supports sorting and filtering by various criteria
- Created using Java, Javascript, MySQL, and AWS

Optimization

- Implemented load balancing across three EC2 instances to improve throughput of requests
- Enabled Tomcat Connection Pooling for improved performance of MySQL connections

Security

- Established MySQL Database Replication to ensure consistency between instances and data redundancy
- Used Prepared Statements exclusively to prevent SQL Injection attacks
- Encrypted user passwords in database to improve security of user data

Relevant Coursework

Data Structure Implementation and Analysis

C++

- Learned how to analyze common data structures in order to determine best fits for different programs
- Implemented recursive programming to solve certain exploration problems

Information Retrieval

Python

- Learned different techniques for storing mass amounts of data scrubbed from the internet
- Created basic search engine that made use of weighted indexing for faster lookup

Experience

University of California, Irvine   *Irvine*
Lab Tutor   Sep. 2021 - Nov. 2021

- Served as a dedicated lab tutor in the Information and Computer Science Tutoring program
- Learned to communicate multiple coding concepts and workflows to students

Awards and Honors

Sep. 2019-2022   **Scholarship**: "Regents Scholarship "   *UCI*