

Stefano Polito

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EDUCATION

University of California, Irvine
Bachelor of Science in Computer Science

Irvine, CA
Sep. 2019 – Oct. 2023

EXPERIENCE

Manager

Oct. 2023 – Present

Ultimate Products Inc.

Costa Mesa, CA

- Used Quickbooks to manage estimates, invoices, and payments for two subsidiaries of Ultimate Products Inc.
- Held meetings with potential clients to create work orders and gather specifications on custom projects
- Upgraded networking configuration and software of company hardware to support unique pieces of machinery

Lab Tutor

Sep. 2021 – Nov. 2021

University of California, Irvine

Irvine, CA

- Guided students through large software engineering projects involving web applications and APIs
- Communicated advanced object oriented design topics to students that spoke English as a second language

PROJECTS

Fabflix | *Java, JavaScript, MySQL, AWS, Maven, Tomcat, Apache, Git, JDBC*

May 2023 – Present

- Developed a full-stack web application with Java serving a REST API with JavaScript as a frontend
- Configured a relational database in MySQL to allow advanced searching and filtering of a large movie database
- Used a reverse proxy server to load balance 3 AWS EC2 instances for increased throughput and stability during high amounts of traffic
- Optimized MySQL queries, indexes, and JavaScript fetches to achieve sub 100 ms response times on all pages of the site

Language Compiler | *Java, ANTLR, Maven, GitLabs, JUnit*

May 2023 – October 2023

- Developed a compiler for a small language called Crux using Java
- Enabled support for if-else conditions, while/for loops, and int/bool types
- Reached enough complexity to implement classic algorithms such as Quicksort

Checkers AI | *Python*

March 2022 – June 2022

- Developed an AI bot that plays checkers against human opponents in real time
- Implemented a Monte Carlo simulation to determine win probabilities of future moves and game states
- Enabled variable computation time, meaning the bot will gain more sophistication with increased compute time

Web Crawling Search Engine | *Python, BeautifulSoup*

September 2022 – January 2022

- Built a search engine based on UCI's internet domain
- Added automated web crawling to add links to a frontier while recording their relevancy and authority
- Used BeautifulSoup to extract tokens from the links and build an inverted index based on token count
- Ranked search results based on an algorithm that determined relevancy to the search query

TECHNICAL SKILLS

Languages: Java, C, SQL (MySQL), Python, BASH, JavaScript, HTML/CSS

Frameworks: JUnit, Maven, Java Servlets, JDBC

Developer Tools: Git, AWS, VS Code, Visual Studio, IntelliJ, Eclipse, Tomcat, ANTLR

Spoken Languages: English (Fluent), Spanish (Fluent)