

Ayoub Mrani

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Education

Bachelor of Science: Major in Computer Science, *George Mason University*

08/2019 – 05/2023 | Fairfax, VA

- Dean's List (All Semesters)
- Relevant Coursework: Data Structures & Algorithms, Low-level Programming, Formal Methods & Models, Computer Systems, Software Engineering, Object-Oriented Software Design & Implementation.

Skills

- Languages & Databases: Java, Javascript, Python, C, NodeJS, HTML5, CSS, SQLite, Redis, DB2, MongoDB.
- Frameworks & Libraries: Ruby on Rails, Angular, React, Spring Boot, JUnit, Redux.
- Production Tools: AWS, CI/CD, Jenkins, Git, Maven, Splunk, Docker, Jira, RabbitMQ.

Professional Experience

Software Engineer, *ATPCO*

05/2022 – present | Sterling, VA

- Worked on both client and server-side frameworks to produce new features for the Airline Pricing Tool Architect.
- Modified Spring Boot Backend Micro Services to meet customer requirements tracked on Jira.
- Collaborated with co-workers using git version control following best practice source code management.
- Utilized Jenkins pipelines to deploy changes to development environments for testing.
- Participated in daily standups consisting of project status meetings, sprint planning, grooming, and other Scrum methodologies.

Computer Science Tutor, *Tutor.com*

01/2022 – 05/2022 | Fairfax, VA

- Provided specialized tutoring services for object-oriented programming and data structures.
- Designed applicatory problems to help students understand advanced concepts.
- Organized tutoring environment to produce productivity, creative thinking, and learning.
- Successfully analyzed and debugged code written by many different individuals.
- Approached and explained various problems from different angles to students.

Mobile Consultant, *Best Buy*

01/2018 – 12/2019 | Springfield, VA

- Provided personalized and exceptional mobile phone, tablet, and computer expertise for customers.
- Handled cellphone activation support for major cell phone carriers like Verizon, AT&T, and T-Mobile.
- Consulted customers on the best mobile plans to customize the best selection for mobile technology and accessories.
- Assisted new and repeat customers in finding the best plans and phones that fit their overall needs as consumers
- Helped earn a high gross in mobile and mobile accessory sales for consecutive months of employment.

Projects

Prim's Algorithm Simulator

- Used the Java Collection Framework and the Java Universal Network/Graph Framework to model and visualize the graph.
- Implemented an Undirected Graph Class to Support the Simulator, and updated the Heap class for better efficiency.
- Extended the Java GUI features to display the step-through process of Prim's Minimum Spanning Tree Algorithm.

Java Byte Code Interpreter

- Implemented a LinkedList class that stores instructions, and a Stack class for evaluating the instructions.
- Used the implemented data structures to extend this interpreter to support a larger subset of the Java Interpreter.
- Created a mapping mechanism using separate chaining to map indices with appropriate data.

Word Game Application

- Developed a Word Game Application that has 5+ word modes, 3+ languages, progress tracking, and player achievements.
- Implemented SQLite for the backend to hold words (text files), player stats, + achievements; querying words and updates.
- Used Java Swing/JFrame, AWT for the User Interface, and Eclipse Window Builder + GIMP for UI design.