

Adel Touati

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Summary: Seeking full-time Software Engineering Position. Experience in Python, Bash, C++, C, and Java as well as Git and Bitbucket. Fluent in English, Arabic, and French. Sponsorship is **not** needed.

EDUCATION

Bachelor of Science in Computer Science, ABET certified
Boise State University

May 2020
Boise, Idaho

Bachelor of Science and Master of Science in Biochemistry
Abou Bakr Belkaid University

June 2013
Algeria

EXPERIENCE

Information Technology Specialist
Boise State University

October 2019 – June 2020
Boise, Idaho

- Utilized **customer service skills to meet business goals** and end-user needs. **Ensured a high level of client satisfaction** through frequent and clear communication on all work orders.
- Provided clients follow up as necessary via email or phone, and ensure proper recording, documentation, and **closure for all issues**.
- Managed the technical assignments and activities of a **diverse team** of student workers university faculty and provided training and leadership, as necessary.
- Utilized **ServiceNow ticket system**, reimaged iPads, MacBook, and Windows machines.
- Maintained general awareness of advances and current trends in technology. **Research issues and resolutions to technical problems**. Acquired and maintained technical knowledge through reading, self-paced training, computer-based training and video-based training, courses, seminars, and other methods.

Front End Web Developer
Social Eyes Marketing

January 2019 – June 2019
Boise, Idaho

- Built efficient, **high-performing responsive websites**, and various other digital campaigns that are standards-based and work across browsers and platforms.
- Wrote efficient, clean, readable, fast and testable code.
- Contributed to the overall design and architecture of the websites for businesses by using **HTML, CSS, PHP, SQL, WordPress, and Adobe Design Products**.
- Launched new custom websites, improving the brand identity for each unique client.
- Completed projects by coordinating requirements, schedules, and activities; contributing to team meetings; **troubleshooting development and production problems** across multiple environments and operating platforms.
- Performed excellent communication and collaboration with management during the development process, ensuring **high client satisfaction**.
- Used aggressive problem diagnosis and creative problem-solving skills to create **user-friendly** and content optimization to reflect the modern user experience.
- Strong understanding of **back-end database development**.
- Used strong organizational skills to handle multiple tasks within the constraints of timelines and budgets.
- Knowledge of how **web applications** work including security, session management, and best development practices.
- Knowledge of relational database systems, **Object Oriented Programming**, and web application development.

Clinical Pharmacy Manager
Asfour Pharmacy

June 2013 – August 2014
Tlemcen, Algeria

- Lead team in **cost-containment** and utilization management initiatives specific to patients served by Asfour Pharmacy and set the **strategic vision** for clinical pharmacy services.
- **Increased sales by 80%** within a one-year period and helped the company become the highest-performing pharmacy in the city.
- **Provided leadership and management** for their direct reports, ensuring appropriate evaluation, implementation, and coordination of assigned clinical pharmacy and operational responsibilities.
- Ensured **quality training and competency programs** were designed, implemented, and standardized to the extent possible for each team in the Department. Facilitated team member conflict resolution.
- Selected staff or new personnel for areas of responsibility; coordinated orientation and training for new and on-going staff educational needs in conjunction with appropriate **internal and external stakeholders**.

- Identify and implement effective process control systems to support the development, qualification, and on-going manufacturing of products to meet or exceed internal and external requirements **reducing chemical waste by 17%**. Assisted in the development and execution of streamlined business systems which effectively identified and resolved quality issues.
- Applied sound, **systematic problem-solving** methodologies in identifying, prioritizing, communicating, and resolving quality issues. Analyzed food samples from major suppliers to determine if each sample met consumer safety standards. **Designed and conducted experiments for process optimization and improvement**. Appropriately documented experiment plans and results, including protocol writing and reports. **Lead the investigation, resolution and prevention** of product and process non conformances.
- Worked with engineering in the completion of product verification and validation. Developed and implemented best practices for new quality control procedures.
- Utilized critical thinking skills to make time-sensitive decisions, **ensuring accurate test results and protecting public safety**.
- Hired, onboarded, and trained new lab assistants, ensuring proficiency in equipment, programs, and report-writing while **creating a welcoming environment for all new team members**.
- Lead in the completion and maintenance of risk analysis. Implemented a safety system through the training and oversight of lab techs, **reduced lab accidents to zero**. Helped team members resolve conflict with constructive dialogue.
- Ensured implementation of quality assurance and other standards throughout production, receiving and shipping.

Visiting Biochemistry Lab Engineer
La Maisrie De La Tafna Spa

April 2013 – June 2013
Tlemcen, Algeria

- Conducted laboratory research to identify specific factors affecting the purity of corn syrup produced. Effectively problem solved quality failures by retiring irreparable factory equipment accordingly.
- Created a method to recycle corn syrup and improved the quality of it from **50% purity to 98% within the four-month period, saving the company \$1,100,000**.

SOFTWARE ENGINEERING PROJECTS

Bioinformatics BTree: Developed a BTree data structure in Java with a small team. After thoroughly testing our implementation, we were given several sample genetic code sequences that we ran through our BTree implementation. As sequences of size 'n' were parsed, those sequences would automatically be inserted into a self-balancing and self-organized BTree. Once finished, the program reported the frequency of each sequence and exited.

"Smash" Shell Implementation: Implemented a Linux bash shell prompt in C called "SMASH". It has several features, including directory handling, common Linux commands, piping and redirecting operations, multithreading, and a command history log. Tested with Valgrind to verify that no memory was leaked.

Hash Table Implementation: Implemented a Hash Table with linear hashing and double hashing. Designed a test driver to ensure all features worked properly.

INVOLVEMENT & VOLUNTEER EXPERIENCE

Cybersecurity Bootcamp (CTF), The Ohio State University January 2021 – Present

- Participating in a Cybersecurity Capture the Flag Competition hosted by the OSU Cybersecurity Club.
- Challenges include solving security-based problems, hacking over 30 applications, reverse engineering, binary exploitation, web, cryptography, and forensics.
- Utilizing software such as, Wireshark, Ghirda, Hex editor, testdisk, and sqlmap.
- Decrypt Base64, SHA256, SHA512, Caesar Cipher, and XOR.

Artificial Intelligence Club Member, Boise State University August 2019 - May 2020

- Attend lectures about Artificial Intelligence, participate and contribute to thoughtful discussions about AI in business models and tech startups.

Home Medical Support, Asfour Pharmacy June 2013 – August 2014

- Provided home medical support to six elderly who are unable to walk and delivered medications to patients and assisted with other medical needs.