Sadiq A. Shaik

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EDUCATION

Duquesne University, Pittsburgh

Aug. 2014 – May 2018
GPA: 3.71 / 4.00

Bachelor of Science in Biochemistry

- Graduated cum laude as Honor's College student; Dean's List all years; Laval merit scholarship; Honors Thesis

Objective: Seeking positions in the intersection of Bio-chemistry & Data Analysis

Competencies: Personalized Cancer Therapy, Data Science, Cloud Computing (AWS), Research, Enzyme Kinetics

WORK EXPERIENCE

ProClinical - WuXi Advanced Therapies

Oct. 2018 – Dec. 2020

Manufacturing Associate I & II

- Lead teams of 3-5 associates in manufacturing personalized cancer treatments for specific cancer cell lines.
- Brought on as a ProClinical contractor, hired as Manufacturing Associate I, promoted to Manufacturing Associate II
- Leadership & decision making role in the workplace; responsible for training ~30 associates, independently performed ~300 manufacturing runs and troubleshooted problems in processes, enabling significant cost savings
- Visual Basic & Excel to process gigabytes of supply chain data; automated defect detection and presented to management
- Key role in collaborating with clients and incorporating feedback into 10 new process documentations
- Worked in cross-functional capacity with Tech Ops, Environmental Management, IT, EHS, Metrology, and Facilities.
- Proficient in GDP & GMP related documentation such as SOP's and Batch Records

Duquesne Undergraduate Research Symposium (DURP)

Summer of 2015, 2016 & 2017

Funding obtained through a Dean's Award Scholarship – Worked under Dr. David Seybert

- Over 2000 hours of research exploration into the effects of macromolecular crowding on cancer-related enzyme lactate dehydrogenase for potential therapeutic improvements.
- Understanding crowding effects have been theorized to be integral in designing efficient cancer related therapeutic agents.
- Delivered presentation of research at the Ethics Forum for the end-of-program symposium for ~200 attendees
- Chosen as one of only 2 in department to speak about research at the Undergrad Research and Scholarship Symposium.
- Published research in school's annual research publication – *Duquesne Scholarship Collection.*

LEADERSHIP

Duquesne American Chemical Society

May 2016 – May 2018

Vice-president

- Organized over 60 events, meetings, and fundraisers over the course of two years. Raised over $10,000.
- Co-founded "Speak Simply" competition. This competition encouraged public speaking across all fields and majors. I was able to invite a former National ACS president to speak for the program. This event attracted over 30 participants.
- Won Outstanding Chapter Award and Green Chemistry Award for our chapter.

EXTRACURRICULARS

- Paid tutor for ~25 students for 6 hrs / week. Helped with homework, preparing for exams & organic chemistry labs
- Participated in service clubs like Peer Buddy for Best Buddies, Homeless Children's Education Fund, Fair Food Program.

Projects

- **Photo Filter Button**: Converts photos to grayscale, sepia, etc using green screen (HTML, CSS, Javascript, Codepen)
- **Enzyme Kinetics Plotter**: Using R to fit research data to hyperbolic graph for kinetic information (R, Excel)
- **Alien shooter game:** Use Python techniques & data structures to create alien shooting game

SKILLS

- **Processing Software:** Proficient in advanced features of Excel, Word, and Powerpoint. Also proficient in Adobe Photoshop.
- **Software Languages:** Python, C, R, HTML, CSS, JavaScript, SQL (MySQL)
- **Technologies:** Anaconda, Jupyter Notebooks, Panda, Numpy, ggplots, DynamoDB, S3
- **Computational and Modeling Software:** Experienced in PyMol, ChemDraw, Visual Molecular Dynamics (VMD), Avogadro, "R" & RStudio, and Terminal (using supercomputers).
- **Instrument Competencies**: UV-Vis spectrophotometer, IR spectroscopy, mass spectrometry (Tandem MS, GC-MS, LC-MS, qTOF-MS), and nuclear magnetic resonance (NMR).
- **University Lab Skills:** Well-versed in chemistry, biology, and biochemistry related methods (Chromatography, PAGE assay, Protein Purification, Cell Culture techniques, PCR, etc.).
- **Coursera Certifications:** 1). Python Basics. 2). Understanding and Visualizing Data with Python. 3). C for Everyone 4). Programming Foundations: HTML, CSS, and JavaScript 5). Introduction to Biostats Bootcamp 6). Finance for Non-Finance Professionals 7). Biomedical Visualization 8). Data Scientist's Toolbox