Sam Boesen

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📍 Gilbert, AZ

SUMMARY

Biomedical Science student at Arizona State University passionate about pursuing Biotechnology and Computational Life Sciences. Strong academic background in biology, chemistry, and mathematics, eager to apply knowledge and skills in research and clinical settings. Valuable experience in service and pharmacy industries, developing communication, organization, and multitasking skills. Seeking opportunities to enhance skills in Biomedical Data Science and Biotechnology, and contribute to innovative and impactful projects that value collaboration, learning, and growth.

EDUCATION

Bachelor of Science in Biomedical Sciences   Expected Graduation: May 2026
Arizona State University   GPA: 3.90
(Certificate in Computational Life Sciences)
Associate of Science in Biological Sciences   Graduated: May 2024
Chandler-Gilbert Community College   GPA: 3.90

WORK EXPERIENCE

Bar Back   June 2023 – Present
Hash Kitchen, Gilbert, AZ
  - Ensured bar customer needs were met promptly and accurately in a high-volume environment.
  - Thrived in high-stress situations, demonstrating adaptability and problem-solving abilities.
  - Utilized knowledge and application of multiple Point of Sale systems.

Certified Pharmacy Technician Trainee Intern   May 2023 – August 2023
Walgreens, Gilbert, AZ
  - Stocked and maintained Rx inventory while adhering to strict HIPAA guidelines.
  - Performed patient data entry and manipulation using various Rx systems.
  - Troubleshot third-party rejects and insurance issues.
  - Communicated with patients and pharmacists to ensure all customer needs were met promptly.
  - Applied knowledge of drug storage protocols, emphasizing attention to detail with industry regulations.

PROJECTS

Portfolio Website - - Bolt.net, JavaScript, Netlify   🔗 </>
  - Developed a responsive portfolio website using Bolt.net and JavaScript.
  - Deployed the website on Netlify for seamless hosting and continuous deployment.
  - Utilized the AI development tool bolt.new to streamline the development process.

Alzheimer's Risk Prediction with Machine Learning - Python, Flask, JavaScript, Docker -   🔗 </>
  - Developed a full-stack web application featuring a Flask backend hosted on Google Cloud using Docker containers and a JavaScript frontend deployed on Vercel, ensuring seamless communication between frontend and backend services.
  - Built a machine learning model using 70,000 protein data entries to predict Alzheimer's risk percentage based on genetic markers, utilizing Python, Pandas, Scikit-learn, and NumPy for data processing and model training.
  - Implemented data processing, model training, and deployment workflows to ensure accurate and efficient risk predictions.
  - Enabled user interaction through the frontend, allowing input of genetic data and displaying real-time risk score predictions via the deployed Vercel application.

Drug Interaction Dashboard - Python, SQL, Streamlit, NetworkX -   🔗 </>
  - Developed a comprehensive drug interaction dashboard using Python and Streamlit, integrating with a PostgreSQL database.
  - Implemented efficient database queries and caching mechanisms to handle large-scale pharmaceutical data.
  - Created interactive network visualizations using NetworkX and Pyvis to display drug interaction relationships.
  - Built robust error handling and logging systems to ensure reliable application performance.
  - Designed an intuitive user interface for searching and exploring drug properties, interactions, and chemical characteristics.
  - Optimized database queries using SQLAlchemy for improved performance and maintainability.

ACTIVITIES & CERTIFICATES

ASU Sun Devil Data Science Club - Member   2024
IBM Data Science Professional Certificate 🔗 - Coursera   2024

SKILLS

Technical Skills: Python, Data Analysis, Machine Learning, SQL, Flask, Pandas, Scikit-learn, NumPy, Plotly, NetworkX, PostgreSQL, Docker, Streamlit, Microsoft Office Suite

Soft Skills: Problem Solving, Team Collaboration, Written / Oral Communication, Organization, Multitasking, Attention to Detail

Laboratory Skills: Standard Laboratory Practices, Data Entry, HIPAA Compliance