

Ashkan Rohani

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Detailed Projects can be found at <https://www.projectashkan.com/>

EDUCATION

The University of Chicago

March 2024

Master of Science in **Computer Science**

Rice University

May 2018

Bachelor of Science in **Chemical and Biomolecular Engineering**

Minor in **Biochemistry / Cell Biology**

Hong Kong University of Science and Technology

Summer 2015

TECHNICAL SKILLS / AWARDS

- **Technical:** Python, C, BASH / Unix, HTML, JavaScript, SQL, MATLAB, Celonis (Process Mining), Git
- **Frameworks and Libraries:** PyTorch, NLP, NumPy, Pandas, react.js, node.js, flask
- **Awards:** Covestro Excellence in Engineering (Rice University), Deloitte LLC Graduate School Sponsorship

EXPERIENCE

Astellas Pharmaceuticals, ML / NLP Analytics Intern

June 2023 – September 2023

- Conducted extensive analysis of YouTube API and Social Media data using **Python**, **SQL**, and **ML / NLP** frameworks to evaluate patient sentiment among post-treatment AML patients, while implementing advanced techniques including **topic modeling and LDA** analysis to extract insights
- Analyzed comprehensive oncological clinical data across global markets (US, Japan, Korea, Brazil, UK) to track market share, monitor line of therapy growth, and identify emerging trends in drug combination for rare disease patients

Stauffer / University of Chicago IT, Full Stack Engineering Intern

June 2023 – September 2023

- Collaborated with major UChicago departments as a full-stack engineer contributing to both front and back-end web development, utilizing React JS, HTML / CSS and Python flask

Deloitte Consulting LLC, Consultant (*Biopharma, MedTech, Biotech, Aerospace & Defense*)

August 2018 – August 2022

- Managed and led solution **DevOps** and tech implementation for clinical trial systems, risk analysis, and **master data management** across various leading global pharmaceutical companies (Japan, UK, US, China)
- Proposed **master data transformation** strategy and organizational design across major bio-pharma players; solutions included a finalized org / operating model, and technology assessment for automation / MDM transition
- Optimized inventory redistribution and fleetwide supply chain modeling for major jet program using **Python**, **SQL**, and **SAP**, assisting in annual savings of \$15 million
- Acted as Functional Lead and Project Manager for major clinical trial **system design** and integration; requirements gathering, implementation, testing, and validation of **clinical trial systems**
- Mid and Post-merger support for **acquisition of Rare Disease bio-pharma companies**, including strategy for integration, clinical trial optimization, and patient support with budget in excess of \$40B

RELEVANT RESEARCH / SIDE WORK

Media Burn Non-Profit, Front-end Developer

November 2023 - Present

- Build and maintain web-app front-end using **HTML**, **CSS**, and **WordPress**

Pfister Zoology Lab @ UChicago

February 2023 – June 2022

- **Image classification** and ML driven categorization of coastal communities using **Python ML libraries** and **ArcGIS Pro**.

MedTech Underground, Consultant

August 2018 – August 2022

- Led various collaborations with medical device startups, including product strategy, go-to-market strategy, and pricing strategy within leading research institutions and global early seed/Series A MedTech startups