

Tim Kong

DATA SCIENTIST

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LINKS

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PROFILE

Medical Device Professional turned Data Scientist with strong foundation in data analytics, problem-solving, and cross-disciplinary collaboration. Unique healthcare background adds a specialized perspective to data-driven solutions.

SKILLS

Databases: MySQL, IBMDb2, Snowflake
Programming: Python, SQL, C
Statistics: Hypothesis Testing, A/B tests, Regression
Data Visualization: Tableau, Power BI, Matplotlib, Plotly, Bokeh, Seaborn
Neural Networks: TensorFlow, Pytorch
Big Data: AWS, Hadoop, Spark
Machine Learning: Supervised and Unsupervised Learning
MLOps: AWS, Azure, Docker

EDUCATION

BrainStation | Diploma, Data Science
JAN 2023 - SEP 2023, VANCOUVER, BC

British Columbia Institute of Technology | Diploma, Biomedical Engineering Technology
SEP 2018 - SEP 2020, VANCOUVER, BC

EXPERIENCE

Design Verification Tester | Verathon Medical

JAN 2022 - APR 2023, VANCOUVER, BC

- Executed rigorous design and software verification protocols on new medical products, ensuring compliance with industry standards and test plans.
- Collaborated effectively within a high-stakes, deadline-driven environment, often supporting the engineering of test jigs for automated verification.
- Flagged inconsistencies in system requirements that triggered a cross-departmental review, leading to updated protocols and enhanced user safety.
- Discovered critical software bugs that expedited priority fixes, reducing the risk profile of forthcoming product releases.

Manufacturing Technician | Clarius Mobile Health

MAY 2020 - DEC 2021, VANCOUVER, BC

- Collaborated in end-to-end manufacturing processes, gaining hands-on experience from inventory management and quality control to unit testing and shipping.
- Developed a program to extract textual and image-embedded data from test reports, consolidating them into a structured CSV format for analysis.
- Automated web documentation entry using Selenium and engineered test jigs, enhancing the efficiency and accuracy of manufacturing processes.
- Cultivated technical proficiency within the team by training new testers in independent station operation, as well as high-level hardware and software troubleshooting.

PROJECTS

Data Scientist | Automated Polyp Segmentation

SEP 2023, BRAINSTATION

- Developed a U-Net-based medical image segmentation model to accurately identify and delineate polyps in gastrointestinal images, aiding in early detection and enhancing diagnostic efficiency for clinicians.

Data Scientist | [SpaceX Launch Prediction](#)

Sep 2021, COURSERA

- Predicted whether the SpaceX Falcon 9's first stage will land successfully based on key features such as payload ranges, launch sites, and booster versions; enabling precise cost estimation for rocket launches.