

Jakub Krulik

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EDUCATION

Athabasca University

BSc in Computing and Information Systems

GPA: 3.74/4.00

Athabasca, AB

Expected Graduation: June 2025

Earl Haig Secondary School

Average: 88%

Toronto, ON

September 2017 - June 2020

SKILLS

- **Languages:** Java, Python, R, C (UNIX), BASH, HTML, CSS, HTTP
- **Data Science:** PL/SQL, PostgreSQL, MySQL, SQLite, Pandas, NumPy, Matplotlib, PyPlot
- **Mathematics:** Markov Models, Linear Optimization, Simplex, Calculus, Statistics, Regression, ANOVA.
- **Bioinformatics:** BioPython, GFF3, Fasta, GenBank, Gene Island Prediction, Sequence Alignment.
- **Tools:** Jupyter, MS Word, MS Excel, MS Outlook, Onedrive, Latex, Notion.

EXPERIENCE

Bioinformatics Research Volunteer

Athabasca University

Remote

April 2023 – Present

- Performed literature review on ring-cleaving oxygenases/hydroxylases identifying candidate enzymes for hydrocarbon degradation in pseudomonas spp.
- Utilized sequence alignment methods in python to search for candidate enzymes in reference genomes.

Layout Editor

Athabasca University Journal of Integrated Studies

Remote

November 2022 – Present

- Formatted galleys in Word and HTML, implementing innovative functions to enhance journal editing.

Bioinformatics Research Assistant

Athabasca University

Remote

March 2021 – July 2021

- Analysed genomic data using Python and online APIs to identify genes involved in bioremediation.
- Compared 3 reference genomes to 10+ phylogenetically closest genomes from the NCBI GenBank database.

Traditional Gardener

Accounts Assistant/Website Manager

Toronto, ON

August 2020 – August 2022

- Created a company website and wrote/populated it with content.
- Maintained and organized documents effectively reducing discrepancies due to missing documents by 80%.
- Followed SOPs to complete reconciliation tasks and identify accounting errors.

PROJECTS

Healthcare Database System

May 2023

- Designed/implemented a detailed healthcare DB with over 30 tables using PostgreSQL and Microsoft Visio. Reduced errors/anomalies due to functional dependencies by 80%.

Java Blog System

August 2022

- Developed a file-based blog system using Java Enterprise Edition (Jakarta) reducing user-input requirements by 70%.

LEADERSHIP & EXTRACURRICULARS

Freelance Writer

- Commissioned 100+ articles for clients within the span of 4 months.