Gatlat Deng Bum

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EDUCATION

McGill University

Bachelor of Arts | Computer Science 2028

Relevant Coursework:

- Introduction to Programming in Python

- Front End Web Development

- Mathematics Foundation for Computer Science(calculus)

- Programming in Java

- Data Structures and Algorithms

SKILLS

Technical Skills

- **Programming:** Python, JavaScript, PHP, SQL, HTML/CSS, Java

- **Frameworks & Tools:** Angular, Backbone.js, Bootstrap, XAMPP, Advanced Chrome DevTools

- **Version Control:** Git, GitHub

Languages

- Swahili (fluent)

- Arabic

EXPERIENCE

Junior Software Developer

McGill Research Institute of Health Centre, Dr. Brian Chen's Lab | Summer 2025 (8 weeks)

- Contributed as a full stack developer to a bioinformatics web application , Genedig
  platform

- Implemented and tested user account management features

- Improved homepage usability with automatic search input focus and streamlined
  notification management.

- Collaborated with lab members to identify and implement usability and performance
  enhancements

- Debugged and resolved issues across a large codebase with many dependencies (PHP,
  JavaScript, Angular, Backbone.js, Require.js, SQL) by analyzing PHP error logs and
  utilizing advanced Chrome DevTools.

Volunteer at Resilience Montreal: 27/05/2025 - Present

- I Help to prepare and serve meals, organize and distribute clothing/hygiene products while keeping the environment clean and safe.

Volunteer high school chemistry lab assistant

Greenlight Secondary School, Kenya 2/2023 - 4/2023

- Assisted in managing laboratory activities, preparing experiments such as titration, qualitative analysis and ensuring safety protocols
- Supported students in understanding practical's chemistry applications

PROJECTS| McGill University

- **DNA Sequence Binding Analysis of Transcription Factors using ChIP-seq Data**
- Gained experience in motif recognition, data interpretation from experimental outputs, and understanding protein-DNA interactions central to gene regulation**.**
- **Medical Diagnostic Support System using K-Nearest Neighbors (KNN)**
- Developed a Python program to assist doctors in diagnosing patients by comparing their symptoms to a database of past cases.

CERTIFICATIONS

- Won **Windle International/ Kenya** to study at Butula Boys High 2019
- Won **WUSC-SRP Scholarship** to study at McGill University 2024.