

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)
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SKILLS

Technical Skills

- **Programming:** Python, JavaScript, PHP, SQL, HTML/CSS
- **Frameworks & Tools:** Angular, Backbone.js, Bootstrap, XAMPP, Advanced Chrome DevTools
- **Version Control:** Git, GitHub

Languages

- Swahili (fluent)
 - Arabic
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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 for genomic data analysis, enhancing both front-end and back-end functionality.
- Developed and tested user account management features, including file creation, sharing, selection, printing, and seamless file browsing.
- Improved homepage usability with automatic search input focus and streamlined notification management.
- Implemented custom Angular favicon for enhanced branding on home screen installations.
- 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.
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CERTIFICATIONS

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