Christian Alain Dukunde

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Education

University of London, London, UK Online
Bachelor of Science in Computer Science   Expected April 2022 - June 2025

- Studying with students in more than 120 countries around the globe.

Work Experience

SendText.ai   Remote
Backend Developer   Jan 2022 - Present

- Develop and maintain MongoDB databases and servers to integrate user-facing elements with server-side logic.
- Support integration with external providers' APIs.
- Optimize the performance of modules and coding blocks.
- Work closely with front-end teams and UX/UI designers to analyze requirements and specifications.
- Use AWS for serverless micro-service implementations.

Systems Biology and Biomedical Informatics Laboratory
University of Nebraska-Lincoln   Lincoln, NE
Undergraduate Researcher   Jan 2019 - Sep 2019

- Received $2,400 to engage in intensive research working on the project "Informatics-Guided Approach to Study miRNA Sorting Through Motif Finding".
- Updated existing lab tools to add functionality. For example, added protein folding on Motif Discovery based on Short Nucleotide Sequences (MDS2) tool which can be found at http://sbbi-panda.unl.edu/MDS4/.

Molecular Plant Virology Laboratory – University of Nebraska-Lincoln   Lincoln, NE
Undergraduate Bioinformatics Research Assistant   Sep 2017 - Nov 2018

- Developed computational tools to analyze genomic, transcriptomic, small RNA, and proteomic data.
- Used and learned existing popular bioinformatics tools.
- Interpreted and analyzed genomic and sequencing data.
- Worked in teams through shared remote clusters.

Gudmundsen Sandhills Laboratory - Nebraska Extension   North Platte, NE
Summer Intern   May 2017 - July 2017

- Checked the moisture level of wheat and corn to verify their readiness for harvest.
- Collected data on cow feeding patterns on different forage types.
- Presented a poster on cows' preference of forage type.

Skills (Years of Experience)

Programming	Python (5), Go (3), JavaScript (4), SQL (4)
Technologies	AWS (2), MongoDB (2), Docker (1.5), Kubernetes (0.5), Git (5), GitHub (5), JIRA (2)
Bioinformatics Tools	NCBI (0.5), Biopython (0.5), Bioconductor (0.5)

Projects

Packdiff GitHub ⌕ *Go, Git*
A command-line tool to see changed/added/removed symbols between different versions of Go programs.

Awards

UCARE Award - University of Nebraska-Lincoln Merit Pages ⌕   May 2019
Received stipend to work on the project "Informatics-Guided Approach to Study miRNA Sorting Through Motif Finding".

Leadership Experience

CASNR Undergraduate Scholarship Program Professional Development Committee Lincoln, NE
Vice President   Oct 2018 - Jan 2019

- Organized professional development events for CUPS Scholars.
- Contributed to organizing bi-monthly meetings to track events.