Gauransh Kumar

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EDUCATION

University of Montreal	**2025-Present**
Ph.D Computer Science	
University of Montreal	**2023-2025**
Software Engineering(NLP)/M.Sc.	*GPA:3.925 /4.3*
Maharaja Agrasen Institute Of Technology	**2020-2023**
Computer Science and Engineering/B.Tech.	*GPA:9.0/10*

Certifications:

- Certified Kubernetes Application Developer (CKAD)
- Google Cloud Certified Cloud Digital Leader

TECHNICAL SKILLS & CERTIFICATIONS

Languages: Python, JS, TS, C, C++, Java

Technologies/Frameworks: Data Science, Machine Learning, Natural Language Processing, Kubernetes, DevOps, GitHub, Docker, Terraform, Prometheus, Grafana, AWS, Google Cloud, Azure, React, Node, Bash, SQL

Publications

Screening articles for systematic reviews with ChatGPT	**2024**
Journal of Computer Languages (Best Paper Award Runner up)	
https://doi.org/10.1016/j.cola.2024.101287	
Assessing the Ability of ChatGPT to Screen Articles for Systematic Reviews	**2023**
arXiv preprint	
https://doi.org/10.48550/arXiv.2307.06464	

WORK EXPERIENCE

Datazip	**Bangalore, India**
DevOps Intern	*Dec 2022 – Jun 2023*

- Experienced in AWS cloud management and optimization, skilled in **Amazon EKS**, **Terraform**, EC2, and **Kubernetes**.
- Implemented Kubernetes ingress strategies, reducing infrastructure costs by 20% by removing redundant Load Balancers.
- Collaboratively enhanced system efficiency, accessibility, and uptimes by analyzing logs from both systems.
- Managed and enhanced AWS systems to meet organizational needs, ensuring scalability, high availability, and fault tolerance.
- Utilized the Leveraged SDK to incorporate various AWS services into applications.

University of Montreal	**Montreal, CA**
Mitacs Globalink Research Intern'22	*Jul 2022 – Oct 2022*

- Collaborated with Professor Eugene Syriani on the ReLiS academic project, which aims to assist in Systematic Literature Reviews for software-related research.
- The deployment structure was improved by implementing Microservices, resulting in increased scalability and agility.
- Numerous software bugs were resolved, user feedback was addressed, and minor project improvements were implemented.
- The Bibler Webservice component was improved by replacing the WSGI server technology with ASGI, significantly reducing the codebase by up to 90%.
- ReLiS has been successfully deployed on a production server using microservices, enhancing client performance and integration with existing systems.

AICrowd **Remote (Switzerland)**
Technical Staff Intern *Nov 2021 – May 2022*
- Specifically aimed at enhancing the user experience in dealing with submissions for debugging from within the platform.
- Contributed to the manual testing and feedback stage of new features that would be integrated into the AIcrowd platform, ensuring smooth operation and user satisfaction.
- Wrote and developed neatly written code of a good standard, which was used in different aspects of the AIcrowd software architecture.

PROJECTS

PromptSLR **July 2024**
Python, Prism, Prompt Engineering *https://github.com/geodes-sms/PromptSLR*
- A tool to conduct and analyze experiments related to Prompt Engineering for Systematic Literature Review.

Chithi **Oct 2021**
Python, Streamlit *github.com/gauranshkumar/chithi*
- A Comprehensive Solution for Streamlining Bulk Email Communication
- Utilized functionalities such as recipient selection through Excel, CSV, and TSV files and the Markdown HTML-compatible Rich Editor with real-time Preview.

Butterfly **June 2021**
Flutter, Android Studio *github.com/gauranshkumar/butterfly*
- A Flutter App to help people deal with Mental Health Issues.

GRANTS & ACHIEVEMENTS

- Received Bourse de fin d'études de maîtrise - BFEM ESP E2024 of 6000 CAD for the duration of May 1, 2024 to April 30, 2025 given by ESP UdeM
- Received a grant from OpenAI of 2500 USD (as OpenAI credits) for conducting research on the Master's Thesis.
- Mitacs Globalink Graduate Fellowship of 15000 CAD from September 1, 2023, until April 30, 2024, given by Mitacs.
- Member of the Organizing Committee for ACM / IEEE 27th International Conference on Model Driven Engineering Languages and Systems (MODELS) 2024.
- **Organised DIRO Hackathon'24 & 25.**
- Recipient of the **Linux Foundation Scholarship** twice (2020 and 2022) - among 500 participants.
- Former **DevOps Lead** at Google Developer Students Club MAIT(Helping students by tutoring and organizing events).