

Bhagya Chembakottu

Education

Ph.D Computer Science, McGill University, Montreal

SEP 2023 — SEP 2027

CGPA: 3.92/4

Research : Security awareness in Web Application Development

M.A.Sc Computer and Software Engineering, Polytechnique Montréal, Montreal

MAY 2021 — MAY 2023

CGPA: 4/4

B. Eng. Computer Science and Engineering, Cochin University of Science and Technology, Kerala

JULY 2015 — MAY 2019

CGPA: 9.5/10.0

Employment History

Teaching Assistant, McGill University, Montréal

AUG 2024 — DEC 2024

In charge of teaching assistance and lab assistant for the course Information and Application Security, Software Design Patterns and in Java, Database Systems, Network Science

Data Science Intern, Ericsson, Montréal

JANUARY 2023 — APRIL 2024

Improved workflows using MLOps and RLOps using Mlflow, and Integrated Kubeflow on Kubernetes distributions using Helm.

Created end-to-end AutoML system to help data scientists to set benchmarks

AI Engineer Intern, National Bank of Canada, Montréal

NOVEMBER 2021 — MAY 2022

Developed document similarity and knowledge graph-based retrieval system and advanced NLP techniques to improve employee experience in the company

Practical work supervisor, Polytechnique Montreal, Montréal

MAY 2019 — PRESENT

In charge of teaching assistance and lab assistant for the course Software Quality Assurance. Software Quality assurance using Maintainability, performance and security testing (Junit, Jmeter, Jprofiler/VisualVM, Zap/sonarcloud)

Artificial Intelligence Engineer, impress.ai, Kochi

MAY 2019 — APRIL 2021

Connected with clients and understood the problem statement, proposed ideas and algorithms along with proposed architecture to the stakeholders, acting lead of AI team containing 3 interns and our project

Details

Montréal, Canada

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(514) 473 - 7788

Links

[LinkedIn](#)

Programming Skills

Java, Python, C, R

AI / ML / NLP

Django, Docker, Kafka, Spring

Git, Jira

CodeQL, SonarCloud, ZAP

Languages

English - Advanced

French – Intermediate

Malayalam – Native

got mentioned in Singapore govt parliament for reducing man-hours using technology

Research Intern, IIT Guwahati, Assam

MAY 2018 — JULY 2018

Worked with researchers and Professors at User-centric computing and networking lab and worked on computer network-related projects.

Research Intern, National Ilan University, Ilan, Taiwan

FEBRUARY 2018 — MARCH 2018

Work with NIU professors in their research areas such as ML, Computer graphics and computer networks.

Projects

Usability of Static Application Security Testing Workflows – SANER Conference 2025

Secbyz – Privacy Enhanced Technology example for POS system, Follows requirements by Bill 64 of Quebec and PIPEDA

Secure Actions – A rule based security testing for github workflows in Python applications (Followed by SLSA and Supply Chain Security)

Decoding Gender Bias: Scalar inference method to analyse pragmatics in word embedding

AutoML systems with HPO and CASH

JavaParser and AST generation

Improving graph search and taxonomy of SharePoint

Scaling analysis of curriculum learning

Conversational Model using BERT

Resume Parsing using NLP and NER