Chelsie Ng

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EXPERIENCE

Software Developer @ SAP
April 2023 – Present | Montreal, Quebec
- ➜ Developed clean and modular code for the G-invoicing project using Template design pattern, to enhance code reusability and efficiency.
- ➜ Implemented REST API request/response handling in the object layer.
- ➜ Optimized data transfer by leveraging parallel processing, achieving a 63.04% improvement in performance.
- ➜ Authored design documents and visualized architectures, facilitating cross-team collaboration through presentations.

Research Assistant @ Concordia University
July 2022 – Dec 2022 | Montreal, Quebec
- ➜ Conducted a replication study measuring seven brain structures guided by Mak-et-al 2015 paper.
- ➜ Explored the Parkinson's Disease dataset (PPMI) using various visualization techniques.
- ➜ Performed extract, transform, and load (ETL) processes to create a custom cohort of 131 subjects.
- ➜ Analyzed 262 MRI patient data to calculate subcortical volume changes.
  Python, Pandas, Matplotlib, Bash, Singularity, fMRIprep

Back End Developer Intern @ Intact
Jan 2022 – Apr 2022 | Montreal, Quebec
- ➜ Developed about ten contract rules for the policy administration system for the brokers' needs.
- ➜ Integrated a multi-language functionality across five pages into the broker web application.
- ➜ Resolved over five production vulnerabilities and supported update deployments.
  Java, JUnit, Mockito, Spring Boot, Maven, Tomcat, Jenkins, Sonar, MySQL, SoapUI

Software Developer Intern @ Intact
Jan 2021 – Apr 2021 | Montreal, Quebec
- ➜ Built a web app from scratch to track the resolution and root cause of over 20 incidents.
- ➜ Created a report form allowing users to extract information from Jira issues in less than 2 seconds.
- ➜ Implemented a cross-search feature reducing search query refinement time by 50%.
- ➜ Deployed for use by approximately 60 employees.
  Angular, Material Design Bootstrap, Spring Boot, MongoDB, Jira API

Software Quality Assurance Intern @ Matrox
May 2020 – Dec 2020 | Montreal, Quebec
- ➜ Created and updated over twenty test cases on TestRail and reported over ten bugs on Jira.
- ➜ Resolved scripting issues by debugging code.
- ➜ Presented training sessions and provided mentorship to three new SQA interns.

PROJECTS

Fuzzy FastSurfer | Python, Fuzzy, Docker, FastSurferCNN
- ➜ A study on the stability of FastSurfer involved adding perturbations with Fuzzy, resulting in zero variability.

Insta-Spot | Python, PySpark
- ➜ A travel recommendation system based on Instagram posts using content-based and collaborative filtering, achieving a 0.0187 root mean square error.

Clever-ICE | Angular, Python Flask, OpenAI, Google Cloud Storage, Google Vision OCR, CockroachDB
- ➜ Built a web app in under 24 hours to automate the insurance claim process for the best customer satisfaction by automatically extracting relevant fields from a claim letter.

Best Before | Vue, Python Flask, CockroachDB, Google Vision AI, OpenCV, Barcode API
- ➜ Created a web app in under 48 hours to track expiry dates of products by receiving emails about upcoming expiries and to extract expiry dates from pictures and product details from barcodes.

SKILLS

Programming
Python • Java • C++ • TypeScript • Node.js • JavaScript • HTML • CSS • MySQL

Libraries/Frameworks
Angular • Vue • React • Next.js • Flask • Django • Bootstrap • Apache Spark • NumPy • Pandas • scikit-learn • PyTorch • Jupyter

Tools/Platforms
GitHub • Docker • Vercel • Linux • Postman • Jira • ChatGPT

EDUCATION

Concordia University
Bachelor of Computer Science Co-op
Montreal, Quebec
Degree Honors: With Distinction

Lower Canada College
Grade 12 Pre-University Diploma
Montreal, Quebec
Graduated with honours

AWARDS

Bourses d'excellence
Concordia University
Awarded a total of 3K CAD.

ENCS Graduating Class ICB Award
Concordia University
Awarded a total of 2K CAD.

Intact Best Project
TOHacks 2021
Awarded $1000 by presenting CleverICE.

1st Place in Category & 3rd Best Overall
Hackatown 2021
Awarded by presenting Best Before.

Re-engineering Winner
Englympics Concordia 2020
Awarded by making existing products better at answering new needs.

Concordia Dean's list 2018-2019
Concordia University
Awarded to students with an annual GPA of 3.75 and above.