Zhihao Huang

Software Engineer and Data Analyst - McGill

Fluent in English, French and Mandarin

Montreal, Qc

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SKILLS

- **Languages:** Proficient in Java and Python, experienced in Bash scripting, C and SQL queries
- **Software:** Competent in software design and in various testing methods such as unit and integration tests
- **Data Science:** Skilled in data analysis using Power BI, R and Python modules
- **Platforms:** Experienced in Agile workflow with Azure DevOps, Jira, Jenkins, Confluence, AWS and Splunk
- **Web Dev:** Familiar with front-end development using HTML, CSS and JavaScript

EXPERIENCES

Software Development Intern — Montreal, Qc
Morgan Stanley - Shareworks — *May 2022 - present*

- Java Software Dev. and Design in equity management web application with clients such as Amazon and MS
- Running numerous PRs needing approvals from staff developers in respect of software design principles
- Employing extensively Unit, Integration, Smoke and UI Testing for quality control
- Working with databases via SQL Developer and directly in Java code
- Utilising many software tools such as Jira, Jenkins, Confluence and Splunk
- Agile workflow and coordinating with teams consisting of developers and QAs

Data Analyst Intern — Montreal, Qc
Bombardier — *Jan 2022 - Apr 2022*

- Manipulated enormous market demand and forecast data in python and R using AWS EC2 and S3
- Collected data with SAP and created a data flow with SharePoint API
- Cooperated with the team using Azure DevOps for biweekly sprint reviews with Agile workflow
- Visualized and presented successfully data to higher management with Power BI and python

Database Support Technician - GCdocs — Ottawa, Ont.
Correctional Service of Canada — *May 2021 - Dec 2021*

- Built front-end web pages of GCdocs with HTML/CSS
- Performed back-end queries with SQL to generate reports
- Provided technical support for users of GCdocs using Axios Assyst
- Assisted the migration of whole CSC from cloud drives to GCdocs

Research Internship in Digital Analysis — Gatineau, Qc
Cégep de l'Outaouais — *May 2021 - Dec 2021*

- Created a pandemic simulator with easily changeable parameters using Python
- Cooperated with a team and achieved a full project folder
- Financed by Natural Sciences and Engineering Research Council of Canada (NSERC).
- Project code: CCIPE 517932-17; Supervision: Charles Varin, PhD and Olivier Rousseau, PhD.

EDUCATION

Bachelor of Science - Computer Science and Statistics major — Montreal, Qc
McGill University — *Sep 2020 - present*

- AI, Data science, Java, Python, C, Linux, Algorithms and Data Structures
- Statistics, Algebra, Calculus, Discrete math, Analysis
- Received Excellence Bursary by MEESR
- cGPA: 3.95/4.0

PROJECTS

- **AI game agent**: created an AI game-playing agent in Python using multiple AI techniques such as Monte Carlo Tree Search and Alpha–beta pruning with game evaluating heuristics. The branching factor of the game is around 250.
- **Hackathons**: participated in many Hackathons such as McHacks, TOHacks, Hatch2021, MMA Datathon Fall2021. Learned about web dev., Android app dev., API usage, Data analysis using R/Python.