Jingjing Ji (She/Her)

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PROFESSIONAL SUMMARY

Master's student in Computer Science seeking a Software Engineer Internship. Strong CS fundamentals with experience coding in Python, Java, and C. Working experience with databases. Excellent problem-solving and communication skills. Passionate about writing understandable, maintainable and extendable software.

EDUCATION

Northeastern University   Seattle, WA
Master of Computer Science   *Expected Graduation: May 2026*
- GPA: 4.0/4.0; Computer Science Teaching Assistant
- Coursework: Object Oriented Design, Data Structures and Algorithms, Database Management, Web Development

University of Alberta   Alberta, Canada
Bachelor of Science in Statistics, Minor in Business   *Sept. 2012 – Dec. 2016*
- Jason Lang Scholarships

University of California, Davis   Remote
SQL for Data Science Certificate   *Aug. 2023*

PROJECTS

HomeBudget Tracker | *Java, Spring Boot, RESTful API, MySQL, JavaScript, Git, Kotlin, Gradle*   April 2024
- Led a team to develop a full-stack web application for transaction entry, financial planning and reporting
- Implemented a RESTful APIs using MySQL for user login, data retrieval, data persistence, transaction tracking, sorting and filtering, and report generation
- Established testing infrastructure and validated test cases and coverage with JaCoCo to ensure reliability.
- Implemented visualization feature to illustrate financial trends and categorization, enhancing financial insights

BookBrowse | *Python, Django, PostgreSQL, Redis, Docker, Git*   Jan. 2024
- Developed a full-stack library application, implementing Models, Views, and Controllers (MVC) to facilitate seamless book administration and browsing
- Streamlined book information retrieval and storage using PostgreSQL, and implemented personalized book recommendations and data visualization to track book popularity.
- Implemented Redis caching mechanism, achieving a 40% increase in read operation efficiency

AIDev Kit | *Python, Jupyter Notebook, OpenAI API, LangChain*   Nov. 2023
- Developed a Stock Analysis Tool managed with pyenv and Makefile, utilizing various selection methods to generate stock suggestions. Integrated the OpenAI API to enhance data analysis capabilities and produce market prediction
- Developed a Personal AI Chatbot using the OpenAI API and LangChain to enhance productivity, including summarizing documents, formatting content, and analyzing data

PROFESSIONAL EXPERIENCE

Financial Analyst   Feb. 2022 – Jan. 2024
Government of Alberta   *Alberta, Canada*
- Retrieved, cleaned, analyzed multi-billion financial raw data from databases using Python and SQL
- Visualized data using Tableau and PowerBI to interpret costing, enhance cost efficiency, and inform decisions.
- Developed and maintained statistical data modeling for forecasts and variance analysis, using linear regression, estimation techniques, trend and sensitivity analysis to identify financial pressures and opportunities
- Communicated effectively with stakeholders through presentations and written communication, conveying complex ideas to diverse audiences, resulting in a 33% improvement in compliance adherence
- Led the transition to a paperless financial workflow with automated CRM reports, reducing overhead by 20%

TECHNICAL SKILLS

Languages: Java (advanced), Python (advanced), C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, Bash
Frameworks and Databases: Java Spring Boot, Django, MySQL, PostgreSQL, Redis, JUnit
Developer Tools and Operating System: Git, Jupyter Notebook, Vim, Postman, Docker, VS Code, Visual Studio, IntelliJ, Gradle, Kotlin, pyenv, Makefile, Unix, Linux (Ubuntu), macOS, Windows