Junqi Cheng

+1(236) 965-5333 junqicheng0312@gmail.com GitHub: https://github.com/Oscarcheng0312

Education

University of British Columbia Vancouver BC

BSc. Computer Science. Sep. 2023 – May 2027(Expected)

Skill

- **Programming language**: Java, C++, Python, R, SQL, JavaScript, HTML, CSS, C, DrRacket
- **Frameworks**: React, Spring Boot, MongoDB, Supabase, PyTorch
- **Specialized Skills**: Data Structures and Algorithm, Object-oriented Design, Machine Learning/Deep Learning
- **Computer Version**: OpenCV, Image processing
- **Microsoft Office:** Word, Excel, PPT, Adobe
- **Soft Skills:** Problem-solving, Effective Communication, Leadership, and Team Collaboration

Internship Experience

Data Analyst Intern, Huan Bohai News Network September 2022 -> January 2023

- Utilized Python and R to clean and analyze data, address missing values, duplicates, and standardize formats.
- Leveraged Pandas and NumPy to create visualizations, calculate statistics, and identify trends, enabling data-driven decision-making.
- Improved operational efficiency by developing actionable insights based on data trends.

Java Research and Development Assistant Engineer. CECEP Industrial Energy Conservation Co., Ltd

April. 1 2024 -> June.30 2024

- Utilized Java to assist in the development of the heating customer service system, implementing key features for user interaction, resolving system issues, and ensuring optimal system performance.
- Applied programming to develop the energy load forecasting program for the smart energy management platform, focusing on data processing algorithms to enhance the accuracy of energy consumption predictions.
- Developed and optimized back-end service interfaces using Java to ensure efficient communication between the smart energy management platform and external systems, enabling robust and seamless data exchange.

Algorithm Intern, Runa Smart Equipment Co Ltd July.14 2024 -> August.22 2024

- Used Python and PyTorch to build and fine-tune deep learning models (LeNet, AlexNet, ResNet, VGG, DenseNet, EfficientNet), achieving optimal accuracy of 96%-99% in image classification.
- Lead a project to classify numerical values from thermal system dashboards, using OpenCV for image extraction and deep learning for classification, and developing necessary interfaces.
- Built and deployed the YOLOv5 model for object detection and instance segmentation, managing annotation, training, and hyperparameter tuning to improve accuracy and performance up to 95%.

Academic Experience

Teaching Assistant, CPSC 110 - Computation, Programs, and Programming

University of British Columbia September 1 2024 -> December. 22 2024

- Assisted in teaching fundamental programming, including functional programming and design. Supported 1300 students in coding, debugging during lab sessions, tutorials, and office hours. Collaborated with professors to ensure smooth course delivery and manage classroom dynamics. Professor Gregor Kiczales highly praised my strong work ethic and passion for teaching, recognizing my dedication to fostering a positive learning environment for students.