

Audrey Wang

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TECHNICAL SKILLS & CERTIFICATION

Software Engineering : Java, Python, HTML, CSS, JavaScript, Django Framework
Data Science : R, SQL, SAS, PowerBI, Tableau
Tools : Git/GitHub, Jupyter Notebook, Electronic Health Records (EHR)
Certifications : AWS Certified Cloud Practitioner, SAS Adv Programing, French - DELF B2

EDUCATION

Bachelor of Computer Science (BCS), GPA: 3.9 /4.0 Sept 2023 – Present
University of British Columbia, Vancouver, BC
Bachelor of Medicine in Clinical Medicine, GPA: 3.75 /4.0 Sept 2013 – Jun 2018
Capital Medical University, Beijing, China

TECHNICAL PROJECTS

OnSnow (Personal full-stack project inspired from youCode Hackathon) Sept 2024

- Created a dynamic Social Snowboarding Fan Forum site using Django Framework and RESTful APIs, updating latest ski center conditions and events, and fostering a community that promotes a healthy, active lifestyle to public.
- Optimized user experience across devices and enhanced engagement through real-time posts and personalized subgroups by implementing interactive design with HTML5, CSS, Bootstrap and JavaScript.
- Created user authentication and profile management systems, encouraging snowboarding enthusiasts to share their techniques and memorable experiences on snow.

Heart Attack Prediction ML Model (Personal data science project) Aug 2024

- Improved early disease detection and patient care by conducting exploratory data analysis (EDA) and training a machine learning model to predict potential heart attacks using Python libraries.
- Achieved prediction accuracy of 90.03% by developing and training a predictive classification model utilizing the Random Forest algorithm, along with cross-validation and hyperparameter optimization techniques.
- Delivered a comprehensive final report by analyzing results in Jupyter Notebook and sharing findings on GitHub.

Patient Tracking System (Academic) Jan 2024 – April 2024

- Designed a patient tracking system application to strengthen clinical trial protocol adherence by providing timely alerts to doctors about upcoming patient follow-ups.
- Implemented a robust Java backend system using OOP principles and design patterns, implementing thorough unit tests to ensure a high-performing, bug-free application.
- Facilitated access to patient information for clinical staff by designing an intuitive GUI using Java Swing, enabling efficient data storage and retrieval through JSON.

WORK & INTERNSHIP EXPERIENCE

Clinical Data Administrator, Core Medical Co., Ltd, Beijing, China(remote) Jul 2020 – Sept 2024

- Ensured data meet QA standards by utilizing SQL and SAS programming to send 400-500 queries per month for problematic data and reviewing results at project milestones.
- Initiated d10 cardiovascular stent clinical projects within 4 years by collaborating with sponsors, drafting case report forms (CRFs) based on CDISC standards, and configuring the electronic data capture (EDC) system.
- Maintained optimal database functionality by testing existing databases and closely liaising with the IT department.
- Hosted technical training sessions during bi-weekly meetings to enrich domain knowledge and support team connection among new employees.

Resident Intern Doctor, Cardiff University School of Medicine, Wales, UK Nov – Dec 2017
Resident Intern Doctor, Xuanwu Hospital, Beijing, China Sept 2016 – Jun 2018

ACTIVITIES

- Volunteer Hospital Guide**, Xuanwu Hospital, Beijing, China 2018
- Marine Life Volunteer**, International Voluntourism, Sri Lanka Feb 2017