Li Ye (Eric) Fan

Year 2, Combined Major in Computer Science and Biology

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TECHNICAL SKILLS

Programming: Python, Java, C/C++, HTML, CSS, JavaScript*   * Currently Acquiring

Tools/Environment: IntelliJ, Visual Studio Code, GitHub

Testing: JUnit

TECHNICAL PROJECTS

Mental Health AI Chatbot   **February 2024**

- Constructed a retrieval-based AI chatbot in Python that is capable of conversing with users to provide immediate guidance and support regarding general mental health queries
- Utilized Natural Language Processing techniques from Python's Natural Language Toolkit (NLTK) for user input processing, performing tasks such as tokenization, stemming and the creation of a bag-of-words model to convert text data into a numerical form that the neural network can process
- Employed the PyTorch library to create a feedforward neural network consisting of two hidden layers and Rectified Linear Unit (ReLU) activation functions for efficient input pattern recognition and intent classification from the training dataset
- Curated and enhanced a JSON dataset with diverse mental health scenarios, optimizing the chatbot's response retrieval accuracy with a SoftMax function

Technologies: Python, NLTK, PyTorch

Photography Portfolio Website   **January 2024 – February 2024**

- Developed and deployed a personal photography portfolio website to showcase a digital collection of my travel photography along with a personal description of my experiences as a developer
- Designed the website to be organized, minimalistic and intuitive by utilizing HTML to structuring the content, CSS for styling and layout, along with JavaScript for dynamic features and interactions
- Implemented a CSS media queries to ensure the structure and appearance of the website is maintained across all types of devices, facilitating seamless access and user experience to the content
- Utilized JavaScript to enable interactive features such as a toggleable navigation menu, animated text effects, and responsive photo galleries allowing the user to expand images for a more immersive view

Technologies: HTML, CSS, JavaScript

Restaurant Tracker/Recommendation Project   **September 2023 – January 2024**

- Designed and developed a Java application for food enthusiasts to rate and store previously visited restaurants for future recommendations by utilizing object-oriented programming skills
- Integrated JSON for data persistence to ensure that the user's personal restaurant collection can be reliably stored and retrieved
- Employed key design patterns such as the Singleton in the development of an event logging system, enhancing the program's future troubleshooting and debugging capabilities
- Transitioned the application from an initial console-based interface to an enhanced, user-centric graphical interface with Java Swing, significantly improving user-interactions and intuitiveness

Technologies: Java, JSON, JUnit Testing

WORK EXPERIENCE

Administrative Assistant – SOUND idEARS Audiology Clinic   **March 2022 - Present**

- Manage logistics with 8 different global manufacturers to coordinate the timely delivery of hearing aids and oversee the clinic-wide shipping system to ensure organized tracking of 1500+ shipments
- Trained new employees on company policies, procedures and hearing aid preparation techniques, enhancing team efficiency and knowledge
- Addressed production-related and coordinated with our audiologist to maintain high service standards, while also updating the clinic's WordPress website for improved user experience
- Provide personalized patient support, handling Bluetooth paring requests, troubleshooting, and appointment related queries by quickly problem-solving and compromising to find a suitable solution
- Consistently provided exceptional patient care and customer service, leading to positive patient feedback and referrals

Supervisor – Xing Fu Tang (Bubble Tea House)   **May 2019 – October 2019**

- Trained and supervised baristas and kitchen staff while ensuring they maintain high service standards
- Collaborated with team members to complete a high volume of orders in high-pressure environments
- Independently opened and closed the store, following strict health and safety procedures effectively
- Responsible for kitchen management including the process of cooking tapioca pearls while contributing to the creation of drinks and desserts

COMMUNITY CONTRIBUTIONS

Vice President of Finance – UBC Biological Sciences Society   **September 2022 - Present**

- Lead planning and development of career-building workshop and academically informative sessions to provide guidance, reassurance, and support to fellow peers
- Developed and implemented a Qualtrics form that significantly streamlined and accelerated the reimbursement process
- Collaborate with other science societies and clubs to develop and run numerous unique and inclusive successful social events
- Involvement with the current development of a BIOSOC scholarship to provide financial aid for students

Database & Outreach Executive – New Chapters Foundation   **June 2022 – May 2023**

- Collaborated with a partner through extensive research to construct an elaborate database consisting of 50+ mental health resources in Vancouver for homeless individuals
- Established and maintained contact with supportive organizations and small businesses regarding potential promotions and sponsorships
- Initiated partnership with a local shelter, organized meetings with management and worked closely to fine tune details of our inaugural event

EDUCATION

Bachelor of Science - *University of British Columbia, Vancouver*   Expected Graduation, May 2026

- Specialization: Combined Major in Computer Science and Biology, 2nd year
- Notable Coursework: **Software Construction** analyzing robust software design, debugging, and testing techniques. **Algorithms and Data Structure** emphasizing efficiency in key data structures and its application in software development. **Computer Systems** covering software architecture, operating systems, hardware-software interaction, and network principles, **Biostatistics** processing data using advanced statistical tests, estimation, regression analysis, and computational data analysis.