Jenelle Truong

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EDUCATION

University of California San Diego   3.93/4.00 GPA
Bachelor of Science, Computer Science with a Specialization in Bioinformatics   Expected Graduation Date: *Jun 2024*
- Leadership: IEEE Eta Kappa Nu (HKN) Secretary

WORK EXPERIENCE

UC San Diego Information Technology Services
Student Engineer   *Jan 2023 - Present*
- Develop and test REST APIs for internal platform utilized by over 30,000 students and staff for class registration and other academic affairs using **Java**-based technologies **(JSP and Spring Framework)** and relational databases (**MySQL**)

UC San Diego Computer Science and Engineering
Undergraduate Researcher - Computing for Social Good Lab   *Jun 2022 - Jan 2023*
- Led team of four other students as first author of a natural language processing (NLP) project on the prediction and examination of mental burnout risk factors in online discourse
- Visualized statistics utilizing the **Python NumPy, Pandas, NLTK, and Matplotlib libraries** for 250,000+ Reddit posts sourced through the Pushshift API and **Google Bigquery**
- Developed modularized pipelines for supervised machine learning classification models, such as SVM, logistic regression, and random forest, through the **Python Scikit-learn library**

Instructional Assistant   *Mar 2022 - Dec 2022*
- Tutored courses in Advanced Data Structures and Discrete Mathematics
- Taught fundamental data structures and command-line debugging skills in **C++** to help 350 enrolled students through office hours and one-on-one appointments

Undergraduate Researcher - Early Research Scholars Program (ERSP)   *Sep 2021 - May 2022*
- Secured the open source machine learning framework Tensorflow from memory-related vulnerabilities by fine-grain sandboxing the third-party **C libjpeg library** through the RLBox API
- Presented poster at the Jacobs School of Engineering Undergraduate Research Symposium and ERSP National Conference with three group members

UC San Diego School of Medicine
Undergraduate Research Volunteer - Rosenfeld Lab   *Sep 2020 - Jan 2021*
- Analyzed genomic data generated from next-generation RNA sequencing experiments through **Bash** scripts to identify motifs and candidate cis-regulatory elements
- Visualized data using the respective **Python and R libraries matplotlib and ggplot2**

PROJECTS
Personal Website @ jenelle-truong.github.io
- Designed website using vanilla **HTML, CSS, and Javascript** and **Bootstrap library** for icons as web fonts to learn fundamental technologies used in front-end development

SKILLS
- Programming: Java, Python, C/C++, HTML, Javascript, CSS,
- Technical: LaTeX, Unix (Bash), Git, Jupyter Notebook, JUnit, Valgrind, Matlab