Jenny Mar

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EDUCATION

University of California, San Diego	San Diego, CA
B.S. Computer Science. 3.9 GPA.	*Sep 2022 – Jun 2026*
M.S. Computer Science.	*Sep 2026 – Jun 2027*

EXPERIENCE

ServiceNow — Jun 2024 - Present
Software Engineer Intern
- Enhancing **data streaming platform** on Instance Data Replication team for **data synchronization** across instances
- Developing **multi-threading processes** in producer and consumer instances with **Hermes Kafka** message queues
- Optimizing seeding performance by adding features for **unlimited records** and **multi-seeding** functionality

UCSD Computer Science and Engineering Department — Sep 2023 - Present
CSE Instructional Assistant
- Conducting **90 tutor hours** per quarter for 300+ upper division class **CSE 100: Advanced Data Structures**
- Lead **40+ student lab sections** weekly and assisted in 30 lectures for **CSE 15L: Software Tools and Techniques**
- Facilitating learning in trees, graphs, stacks, queues, compression, hashing, Bash scripts, JDB/GDB, runtime analysis

Triton Software Engineering — Oct 2022 – Present
Engineering Manager
- Leading **full-stack iOS** mobile app team of 12 for nonprofit organization 4FLOT using **Agile** development cycle
- Implementing dynamic **SwiftUI** views, state management, and service layers using **MVVM architecture**
- Designing backend GET, POST, PATCH, DELETE routes with **NodeJS Server** and **MongoDB database**

UC San Diego Design Lab — May 2023 - Oct 2023
Undergraduate Research Developer
- Developed Figma whiteboard plugins embedded with structured design templates for 5 whys and competitive analysis
- Built full-stack system using **React**, **TypeScript**, **Flask**, **Firebase**, **GPT-3.5 API** to deliver in-template AI feedback
- Ran user studies with **57 participants** and 3 iterated versions for **ACM IUI 2024 HCI** research conference

UCSD Arun's Data Analytics Lab — Oct 2021 – Jun 2022
Research Intern
- Placed **top 100** in Kaggle competition with **multi-class image classification** task for 100 Sorghum Crop cultivars
- Worked with **Dr. Arun Kumar** to adapt Facebook's ConvNeXt and Google ViT architectures using transfer learning
- Conducted large-scale hyperparameter grid search and model tuning on GPUs, achieving **0.986 test accuracy**

PERSONAL PROJECTS

Association for Computing Machinery — Oct 2022 – Present
Backend Developer
- Designed **backend schemas** for DiamondHacks portal with 3-layer abstracted API routes and **PostgreSQL** database
- Launched **Discord Kartana bot** to automate the event hosting pipeline and sync with ACM's Notion calendar

Hacktivists AI — Oct 2022 – Jan 2023
ML Developer
- Predicted court case outcomes with KNN, Decision Trees, Random Forest, LightGBM, SVM, and Keras DL models
- Presented final **0.95 accuracy** in annual showcase symposium for 50+ student organization executives and professors

TECHNICAL SKILLS

Languages: Java, Python, SwiftUI, C, C#, C++, ARM64, Bash, JavaScript, TypeScript, HTML/CSS, R
Developer Tools: Git, JUnit, DeepNote, Google Colab, Jupyter Notebooks, XCode, IntelliJ, Docker, Visual Studio Code, PyCharm, ROS, MongoDB Atlas, Postman, Firebase, AWS, MySQL, PostgreSQL, Jarvislabs.ai
Libraries: NumPy, Pandas, Matplotlib, Seaborn, Sklearn, Pytorch, Keras, Tensorflow, React, NextJS, NodeJS, Flask

PUBLICATIONS

Xu, X., Yin, J., Gu, C., **Mar, J.**, Zhang, S., E, J.L., and Dow, S.P. *Jamplate: Exploring LLM-Enhanced Templates for Idea Reflection.* In *Proceedings of the 29th ACM International Conference on Intelligent User Interfaces (IUI '24)*, 2024.