

YOURONG YANG

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Website: <https://yourongyang1.github.io/>

EDUCATION

University of California, Los Angeles

Master of Science in Electrical and Computer Engineering **GPA: 3.95/4.0**

*Los Angeles, CA
Expected March 2023*

Bachelor of Science in Electrical Engineering **GPA: 3.72/4.0**

Course Works: Algorithm Development, Object-Oriented Programming, Computer Systems, User Interface Design, Data Mining, Machine Learning, Deep Learning.

August 2020

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, MATLAB, SQL, HTML, CSS, Swift, C#.

Tools: Bootstrap, Node.js, React, MongoDB, MySQL, Git.

Data Science Libraries: NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow, Keras, OpenCV.

PROFESSIONAL EXPERIENCE

Schlumberger

AI Engineer Intern

*Beijing, China
Dec. 2020 - Aug. 2021*

- Designed & implemented a **recommendation system** module in a **C#** simulator application.
- Developed a feature that **automatically generates weight values** based on the historical data, **classifies and ranks** drilling trajectories by **validity**.
- Retrieved and Improved classical control algorithm process with **modern ML** in the recommendation module, tested the module with real enterprise raw data and accelerated SME intervention per iteration by **200+ hours**.
- Developed and compared SVM, Random Forest, CNN, LightGBM and ensemble models using **TensorFlow**, evaluated model performance via confusion matrix and achieved **97%** accuracy.

Bruin Note: iOS AI Note-Taking Application

Team Leader & Software developer

*Los Angeles, CA
Jan. 2022 - Mar. 2022*

- Led 2 teammates, built an **iOS** application using **Swift**, enabling users to take handwriting notes with unique text style, compatible with apple pencil on iPad.
- Built live server on **Ubuntu** to enable parallel user interaction.
- Created tree-like note classification hierarchy on back-end base, enabling swift access.
- Developed and created cell-like category interface, integrated pencil kit API to handwriting interface, and enable user to import notes as PDF or PNG format.
- Optimized generative adversarial network(**GAN**) on server to convert handwriting and text from various sources to user's own hand writing style, exceeding **90%** accuracy.

PROJECTS

Twitch Plus: A personalized Twitch resources recommendation engine

Personal Project

*Los Angeles, CA
Mar. 2021 - Sep. 2021*

- Designed and built a **full stack web application** for users to search twitch resources (stream/video/clip) and get recommendations.
- Implemented **RESTful APIs** using Java servlets, retrieved real Twitch resources using Twitch API and stored data in **MySQL**.
- Support **user authentication** and favorite collection. Explored multiple **recommendation algorithms** and implemented a Content-based algorithm based on Twitch resources.
- Built a web page with user-friendly experience using React and Ant Design.
- Deployed the service to **AWS EC2** for better stability.

Product Review Full Stack Web Application

Team Leader & Software developer

*Los Angeles, CA
Jan. 2022 - Mar. 2022*

- Designed the product UI/UX wireframes in **Figma**, created product UI webpages in **HTML & CSS** using **Bootstrap** with an Agile approach.
- Implemented **RESTful APIs** to provide users with comprehensive product information and built the client-side & server-side application to handle incoming requests using **React & Node.js**.
- Utilized **DynamoDB on Amazon Web Service** to set up the infrastructure that handles 30000+ transactions of 2000+ clients.