

SHANTAO YI

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EDUCATION

UNIVERSITY OF CALIFORNIA SAN DIEGO

B.S. IN COMPUTER SCIENCE WITH A MINOR IN MATHEMATICS

LA JOLLA, CA

08/2016 - 06/2020

Provost Honors | Cumulative GPA: **3.95** / 4.00 | Major GPA: **4.00** / 4.00

SKILLS

LANGUAGES: Python, C, C++, SQL, Java, Kotlin, HTML/CSS, JavaScript, React, React Native (JSX), Redux

TOOLS: Vim, Android Studio, Qt Creator, Unix, Git, Github, Docker

CONCEPTS: Agile Dev., Algorithms, OS Principles, Data Structures, OOP, Design Patterns, Product Management

MACHINE LEARNING: Traditional ML, RL, NN & Deep Learning, Object Detection, Recommender Sys., Data Science

EXPERIENCE

SALESFORCE.COM

SAN FRANCISCO, CA

SOFTWARE ENGINEERING INTERN | FIELD SERVICE LIGHTNING - MOBILE (ANDROID)

06/2019 - 09/2019

- Redesigned & expanded the App's TalkBack accessibility feature for vision-impaired users
- Implemented a new feature using *Java & Kotlin* that supports WebView-to-PDF transformation and file sharing
- Improved CI workflow by introducing code coverage for Kotlin using *Gradle*; increased overall code coverage by **20%**
- Contributed in bug fixes, UI controller logic improvements, unit tests generation, QA, and regression testing

UNIVERSITY OF CALIFORNIA SAN DIEGO

LA JOLLA, CA

ACADEMIC TUTOR | CSE DEPT., JACOBS SCHOOL OF ENGINEERING

09/2017 - 12/2019

- Tutor for multiple classes, covering topics such as *Java, C, C++, OOP, advanced data structures*, and *ML/RL algorithms*.
- Hold lab hours to analyze/debug code, explain related concepts, and lead discussion/review sessions for **400+** students

HEALTHWARE INC.

SAN DIEGO, CA

SOFTWARE ENGINEERING INTERN | PRECISE PK

07/2018 - 09/2018

- Redesigned UI & its workflow and implemented new features such as CRS record storage using *QT Creator* and *C++*
- Refactored codebase and applied an OO design pattern which allowed **100% more** dosage history storage

PROJECTS

LAUNCHIT [[LAUNCHITSD.HEROKUAPP.COM](https://launchitsd.herokuapp.com)]

- Corporate dev and UI/UX teams, create and prioritize user stories/features as the **Product Manager**
- Setup overall timeline, direct & monitor scrum development process, conduct user research
- Analyze product's business potential, prepare pitch decks/demos, reach out for school-wide collaborations

CAFFEINEMATED [[GITHUB.COM/SHINTO98/CAFFEINEMATED](https://github.com/ShinTo98/CaffeineMated)]

- Developed (with a team of 10) a mobile social media platform that allows convenient coffee purchases
- Contributed to front-end implementation by *React Native (JSX) & JavaScript* and *Google location services* embedment
- Communicated with sub-teams, coordinated sprints and the overall timeline as the **Tech Lead**

TRIPP: TRIP ANYWHERE, ANYTIME [[GITHUB.COM/SHINTO98/TRIPP](https://github.com/ShinTo98/Tripp)]

- Created (with a team of 3) a commercial traveling website inspired by the trending concept of sharing economy
- Built the login/signup process (front end UI & mock backend) using *HTML/CSS, JavaScript, React*, and *Redux*

RESEARCH ARTICLE MODERN CONVOLUTIONAL OBJECT DETECTOR UNDER SECURITY-RELATED USAGE

[[HTTPS://GITHUB.COM/SHINTO98/LUGGAGE-DETECTOR/BLOB/MASTER/PAPER.PDF](https://github.com/ShinTo98/Luggage-Detector/blob/master/Paper.pdf)]

- Implemented a task-specific object detector; trained, fine-tuned, and tested against original handpicked datasets
- Resulting accuracy is **on par** with state-of-the-art object detectors that are trained using much larger datasets

RESEARCH ARTICLE RECOMMENDER SYSTEM BASED ON VIDEO GAMES DATA: A SURVEY

[[HTTPS://GITHUB.COM/SHINTO98/RECOMMENDER-SYSTEM-SURVEY/BLOB/MASTER/PAPER.PDF](https://github.com/ShinTo98/Recommender-System-Survey/blob/master/Paper.pdf)]

- Designed an recommender model utilizing *Jaccard Similarity & SVM* with tailored features such as *TF-IDF* results
- Predicted purchases with 84.9% accuracy, **16.9%** over the baseline

ACTIVITIES

CHINESE ENGINEERING SOCIETY [[LINKEDIN.COM/COMPANY/UCSDCES](https://www.linkedin.com/company/ucsdces/)]

LA JOLLA, CA

FOUNDER & DEPARTMENT LEAD | CAREER DEVELOPMENT DEPT.

09/2018 - Present

- Lead **14** officers; initiate, plan and hold educational events with an average attendance of **over 50** students each
- Formulate dept.'s infrastructure and management policies, preside all-hands meetings, and coordinate sub-teams
- Created & Currently directing *LaunchFuture*, an accelerated training program that provides students with mentors and resources to obtain industry-grade technical skillsets