

YANG CHEN

Technical Skills

Languages

JS, Python, JAVA, C++, HTML, C, PHP, Android, Swift, Objective-C, C#,

Frameworks

Tensorflow, PyTorch, Jenkins, Selenium, RTOS, React, Redux, Flask, Bootstrap, AngularJS, NodeJS, Spring, Spring Boot, Spring AOP, Hibernate, FeatherJS, Wordpress, Crawler, BLE

Operating Systems

Unix, Docker, AWS, Mac, Linux, Apache, WAMP, Windows, Google Cloud, Baidu Apollo, LG Simulator

Project Portfolio

<http://www.yangchenai.com>

GitHub account

www.github.com/cy19890513

Applications

Git, CUDA, Docker, Tensor Flow, Jupyter Notebook, Android Studio, Appium, Data Grip, Web Storm, Prototype, Sublime, IntelliJ IDEA, Drupal, Chrome, Xcode, MySQL, MongoDB, Quantum Data, Adobe Photoshop, Visual Studio, NClass

Bilingual

English, Mandarin

Work Experience

SR. SOFTWARE ENGINEER & TECHNICAL LEAD | Walmart Global Tech | Sunnyvale, CA [Nov. 2023 – Present]

Walmart Marketplace is a curated community of respected, professional sellers who offer only top-quality, authentic products and best-in-class customer service. My work includes:

- **Led the design, development, and documentation** of reusable, instrumented front-end components, enabling consistent UI patterns, observability, and scalability across all Marketplace micro-app teams
- Designed and implemented a **Wibey automation skill** to orchestrate lower-environment deployments and CI/CD pipeline execution, accelerating development workflows and minimizing operational friction
- **Led a team of 3 engineers (2 front-end, 1 back-end)** to design, implement, and scale a store search and update API, enabling seamless updates and searches across millions of products, improving overall seller experience.
- Architected and optimized GQL APIs for efficient search functionality, supporting more than **50,000 requests per minute** with reduced latency by **30%**.
- **Mentored** junior engineers, providing guidance on best practices and technical mentorship

SOFTWARE ENGINEER III | Walmart Global Tech | Sunnyvale, CA [Dec. 2021 – Nov. 2023]

- Developed an Inventory and supply chain prediction tool based on Holiday, and event data using **Generative AI, Pandas, Jupyter Notebook and ML Model**
- Built scalable Application using **ReactJS, Java, Kubernetes, Cloud technologies, Google Maps API and Analytics tools**

SR. SOFTWARE ENGINEER | Meta Inc. (Lovefoodies Inc.) | Menlo Park, CA [Feb. 2021 – Dec. 2021]

My Team is part of a tightly integrated team of core technical functions that support every product team at Facebook. My work includes:

- Grew 50% in customer usage of internal signal application by developing web applications, chat bots, and analytic dashboards using **ReactJS, Python, JAVA, Redux, Presto, and Mysql**
- Customized images using **Bayer pattern, computer vision, Colab, Python, matplotlib and numpy**
- Formatted and cleaned data using **SQL queries, Crud application, mysql and hive database operations**
- **Actively answer** colleagues' **product/technical questions** from dev team, project group and companywide question posts

SR. SOFTWARE ENGINEER INTERN | Tesla Inc. | Palo Alto, CA [Sep. 2019 – Dec.2020]

- Developed and Maintained the SIM System Application by using **C/C++, Python, MySQL and PostgreSQL**
- Saved over 1000 hours' worth of QA time by implementing **automated** wireless regression test using **React, Python, Jenkins**
- Doubled Developers efficiency by implementing a parallel test process/framework saving 1000 hours of work per year using **CI/CD, Python, Docker, Jenkins, Kubernetes, and Shell Scripts**
- **Analytics – Decreased 30% on bug/failures by designing and maintaining data analytics dashboards**
- Created **Machine Learning Model** for Vehicle Applications using **Splunk, Splunk Machine Learning, and Logistic Regression**

SR. FULL STACK DEVELOPER INTERN | IBM Inc. | San Jose, CA [Jun. 2019 – Sep. 2019]

- Designed and implemented a flex points calculator start from scratch: Studied **business logic**, prepared **software design**, developed software, deployed the application using **JS ES 6, Carbon Components, Java**, and **IBM Cloud**
- **Led** an Intern team to develop a **Machine Learning** project, used voice to send Git commands by hosting **scrum meeting**, created tasks, report bugs, prioritized tasks, and monitored task progress/status using **IBM Watson API, JIRA, Google Cloud**

CONSULTING SOFTWARE ENGINEER | Penguin Smart Inc. | Palo Alto, CA [Sep. 2018 – Jun. 2019]

- Designed, architected, and developed patient and doctor communication and management platform using **PHP, JAVA, RoR**
- Implemented features like Questionnaires, website timeout, SSL function, website speed optimization, e-commerce solution using **React, Bootstrap, PHP, Node, WordPress, Certbot**

SOFTWARE ENGINEER | TiVo Inc. (Pro-unlimited) | San Jose, CA [Jun. 2016 – Feb. 2018]

- Saved company 5 million dollars by improving **CRM** (Sales Force) application based on business needs (**Ecommerce, Exchange, Exchange Edit** flow)
- Developed Frontend and Backend application using **AngularJS, REST API, JAVA, Servlet, Spring, Maven, Mule Soft ESB and SAP**

SR. MOBILE DEVELOPER | Vigo Technologies Inc. | SF, CA & Shenzhen, China [Jan. 2015 – Dec. 2015]

App URL: <https://apps.apple.com/us/app/vigo-your-personal-energy/id1023648563>

- Developed and **managed** the outsourcing team on **UI, iOS, Android, Backend** of company core app application
- Worked on iOS and Android App using **Obj-C, Swift, Java, Kotlin, and BLE**
- **Guided** other team members by provide **knowledge transfer** and **prepare documentation**

Military Experience

GENERATOR MECHANIC (Honorable Discharge) | US Army | 1-1 Aviation Repair Base, Fort Riley, KS [2008 – 2012]

- **Deployed** to Iraq for 12 months in support of Operation Iraqi Freedom, performed troubleshooting on light vehicles/generator problems and replaced parts. **Supervised** six people, providing motivation and accountability.

Education

MASTER OF SCIENCE: SOFTWARE ENGINEERING | San Jose State University, San Jose, CA [2020]

- Courses: Data Mining, Autonomous Vehicles, Enterprise Distributed Systems, Enterprise App Dev, Enterprise SW Platforms

B.S. COMPUTER SCIENCE | GPA: 3.47/4.0 | Kansas State University, Manhattan, KS [2014]

- Awards: Memorial Scholar, Kendell Aileen Memorial Scholar, Leonard E Fuller Scholar, S. Thomas Parker Scholar
- Competitions: **ASABE Robotic (1st)**, **S. Thomas Parker Mathematical (1st)**, **Local ACM programming (2nd)**, **Garmin programming (4th)**, **SJSU-USPS Hackathon**

PROGRAMING FOUNDATION WITH JAVASCRIPT, HTML AND CSS (With Honors) | Duke University on Coursera [2017]

Robotic/Machine Learning Projects

Object Motion Prediction in Autonomous Driving | SJSU | San Jose, CA [Spring 2020]

Project URL: http://www.boostshore.com/index_files/omp_in_ad.pdf

- Reproduced existing state-of-art **prediction** models. Set up project timeline and project goals. Collaborated with team members on implementation and project tasks.

ASABE Robotic competition 1st Place | KSU | Manhattan, KS [2012 – 2013]

Project URL: http://www.boostshore.com/index_files/RoboticCompetition.php

- Improved robots average run time 2 minutes by developing and testing robotic movements using **state diagram, Labview and Sensors**.