

## WORK EXPERIENCE

### Frontend Engineer, Tiktok Pte. Ltd.

**Jul 23 to Present**

**Technology: ReactJS, Redux, Internal tools – Cloud deployment, CDN, Load Balancer**

- A part of data compass team in Tiktok Shop, which provides statistics and metrics to TikTok Shop creators and partners about their content monetary and non-monetary performance.
- Built a React webpage embedded in TikTok App used by over 1 million unique weekly active users.
- Created new data dashboard and integrated diagnosis features in Tiktok Seller center mobile app, partner.tiktokshop.com and affiliate.tiktok.com which is used by tens of thousands of unique users daily.
- Use TikTok internal toolings such as build tools and infrastructure as well as different frontend development and Micro-Frontends frameworks to perform scalable deployment to multiple regions and countries.
- Optimize a smooth close to native app experience by using animation library such as Framer motion

### Full Stack Developer, DBS Bank

**Jul 21 to Jul 23**

**BE Technology: Java, Spring Boot, MariaDB, Camunda Platform, Mockito, Junit, Kibana Dashboard**

**FE Technology: ReactJS and hooks, Redux toolkit + Redux-saga, Typescript, Jest, React-testing-library**

- In charge of building a web application for financial transactions as part of the BranchConnect project. BranchConnect is a web application to be used by all bank tellers and managers in Singapore.
- Uses Camunda Platform in Java Spring Boot to orchestrate form filling and subsystem API calls during transaction.
- Solely responsible for integration of Teller Assist Unit physical device to application using REST API to trigger device actions and event listener through web socket to receive events and show corresponding UI.
- Advocate on the usage of reusable front-end components and creating it by communicating with other teams for requirements gathering and maintaining some of the most widely used components throughout BranchConnect, shorten common component integration time from one month to one week.
- Build testable front-end code by using jest and react-testing-library with 98% of unit test line coverage score via Sonarqube static code analyzer.
- From times to times, performing tech lead duties such as code review, distribute workload to team members, act as technical representative in software design meetings and production support.

### Manufacturing Engineer, Micron Technology

**Nov 20 to Jun 21**

- Led 9 team members to maximize production line performance and meet daily move target.

## EDUCATION AND ACADEMIC ACHIEVEMENT

### National University of Singapore

**Aug 16 to May 20**

- Bachelor of Material Science Engineering, CAP: 4.77 / 5 (First Class Honor)
- Dean's List AY 2017/2018 Semester 1 and AY 2018/2019 Semester 2
- Awarded ASEAN Scholarship
- Bronze medal of International Chemistry Olympiad (IChO) Azerbaijan 2015

### Final Year Project, National University of Singapore - IMRE, A\*STAR

**Aug 19 to May 20**

- Executed a project on magnetic skyrmion tuning of metallic thin film deposited by sputtering process.
- One of the contributors of the journal published in <https://iopscience.iop.org/article/10.1088/1361-6463/ac09b6>.
- Project won the Material Research Society Singapore Medal (Best project in the cohort).
- Make use of python script to automatically calculate magnetic parameters from raw experimental data. Saving data analysis time and providing better accuracy over existing method of manual estimation of area under the curve.

## PERSONAL TECHNICAL PROJECTS

**Portfolio website:** <https://viriyadhika.com> | **GitHub:** <https://github.com/viriyadhika>

**Technical Skill:** Front-end: React, Android Studio, HTML, CSS, Bootstrap; Back-end: Django MVT, Django REST Framework; DevOps: Nginx, DigitalOcean, Heroku; Language: Python, Java, JavaScript

### Group Management Website

**Aug 20 to Dec 21**

- Utilized Django REST Framework back-end for jwt user authentication and database query returning JSON.
- Front-end: React JS that consumes API with React-bootstrap and Material UI for styling and React-Router.
- Utilized DigitalOcean Droplet and Nginx for deployment with Let's Encrypt SSL.