

# Cheng-Chih Hsu Michael

SENIOR ENGINEER · FRONT-END LEAD · OSS DEVELOPER

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“Everyone in the world has the power to share knowledges.”

## Education

### National Taiwan University

Taipei City, Taiwan

MASTER OF BUSINESS ADMINISTRATION IN DEPARTMENT OF INFORMATION MANAGEMENT

September 2013 - June 2015

- Thesis: **Personalized Retweet Recommendation - Using Latent Factor Model With Response Time Features**, BAEIR (Business Analytics and Economic Impact Research) Lab. Advisor: Prof. Hsin-Min Lu
- Teaching assistant, Programming Design (Spring 2014), Prof. Ling-Chieh Kung
- Teaching assistant, Systems Analysis and Design (Spring 2014), Prof. Hsin-Min Lu
- Teaching assistant, Data Structures (Fall 2013), Prof. Chen, Yu-Fang
- Information Security (IM 5011), Natural Language Processing (CSIE 5042)

PROGRAM IN CLOUD COMPUTING PROGRAM

September 2012 - January 2014

- Trend Micro Inc.
- System Programming (Prog 2010), Special Topic on Cloud Computing (Prog 2005), Network and Platform Service Programming (Prog 2007)

BACHELOR OF BUSINESS ADMINISTRATION IN DEPARTMENT OF INFORMATION MANAGEMENT

September 2009 - June 2013

- Captain of Badminton Team (2012)
- Operating Systems (IM 2003), Web Retrieval and Mining (CSIE 5137), Systems Analysis and Design (IM 3007), Introduction to Information Retrieval and Text Mining (IM 5030)

## Work Experience

### MediaTek Inc.

Taipei City, Taiwan

SENIOR ENGINEER - FRONT-END LEAD

July 2014 - Present

- Act as a Front-End Lead. Manage the technology stacks and technical debt for Front-End projects.
- Act as a mentor. Coach junior Front-End developers.
- Act as a project owner in the scrum team. Manage the status of Front-End projects.
- Act as a senior Front-End developer in MediaTek. Share Front-End new technology, tools and best practice to others.
- Act as an open source developer. Maintain the NPM package and UI library on GitHub used by MediaTek projects.
- Act as a backend developer. Develop MediaTek Cloud Sandbox API.
- Build an IoT cloud platform with MediaTek Labs.
- Build an AI cloud platform of MediaTek AI ecosystem.
- Build a project data management platform.

### 雲鼎天秤

Taipei City, Taiwan

CO-FOUNDER

October 2013 - December 2013

- Develop a iOS app for user to share notes in real-time. Keyword: Node.js, WebSocket, iOS.

### Gogolook Whoscall

Taipei City, Taiwan

FRONT-END SUMMER INTERNSHIP

July 2013 - December 2013

- Web Designer & Developer & Data Processor
- Develop a web service for customer to enable their account via point card. Keyword: jQuery.

### TMI 台灣創意工場

Taipei City, Taiwan

VENTURE CAPITAL SUMMER INTERNSHIP

July 2012 - December 2012

- Startup Survey & Web development
- Assist startups to develop POC features. Keyword: Ruby, ROR, JavaScript.

## Skills

### Programming

TypeScript, JavaScript, PureScript, Node.JS

### Web

React, GraphQL, Apollo, Next.js, Create-React-App, Gatsby, Jest, React-Testing-Library, Yarn, Babel, Webpack, ESLint, Prettier, GraphQL-Codegen, FlowType, Gulp, Enzyme, Redux, Express, Angular, Rx.js, Cycle.js, WebSocket, PWA, SSR, SEO

### DevOps

Docker, Docker-compose, CI/CD, TravisCI, CircleCI, Kubernetes, Drone, Bamboo

# Projects

## SERVICES

2020	<b>Project master data management platform:</b> A Master Data management platform to analysis project stage in MediaTek. Keyword: Next.js, GraphQL, Apollo, typescript, react hooks, GraphQL Code gen, material-ui, MediaTek	Front-End Lead
2020	<b>Debugger platform:</b> A web UI to analysis the status of jobs and integrate dataflow with Splunk software in MediaTek. Keyword: Next.js, GraphQL, Apollo, typescript, react hooks, GraphQL Code gen, material-ui, Splunk, MediaTek	Front-End Lead
2019	<b>Data analysis story showcase:</b> An AI show case page in MediaTek. Keyword: Gatsby, GraphQL, styled-components, typescript, react hooks, GraphQL Code gen, MediaTek	Front-End Lead
2019	<b>NeuroPilot Simulator:</b> An AI Simulator provides pre-silicon functionality and performance hint for early-stage AI development with NeuroPilot. Keyword: Next.js, GraphQL, Apollo, Flow type, docker, pkg, MediaTek	Front-End Lead
2019	<b>NeuroPilot Online Document:</b> A MediaTek Ecosystem for AI Development. Keyword: Next.js, GraphQL, Apollo, Flow type, MediaTek	Front-End Lead
2019	<b>Decoder tool website:</b> Develop a decoder tool web UI for RD to analysis encoded files in MediaTek. Keyword: Next.js, GraphQL, Apollo, Flow type, MediaTek	Front-End Lead
2018	<b>MediaTek Cloud Sandbox Enterprise:</b> Enterprise version of MCS. Keyword: Docker, Kubernetes., MediaTek	Front-End Owner
2018	<b>MediaTek Cloud Sandbox Scenes:</b> A drag and drop web service to monitor IoT data channels in a scene. Keyword: GraphQL, Apollo, Next.js, Proxy, i18n, Docker., MediaTek	Front-End Lead
2017	<b>MediaTek Cloud Sandbox Lite:</b> Desktop app version of MediaTek Cloud Sandbox which can be quickly built and get started with. Keyword: React, Redux, Cycle.js, RxJS, OSS, NW.js, i18n., MediaTek	Front-End
2016	<b>MediaTek Cloud Sandbox Analysis:</b> An internal data visualization service. Keyword: React, Redux, SVG., MediaTek	Front-End
2016	<b>MediaTek Cloud Sandbox Public:</b> A web service that you can share your own IoT device to everyone. Keyword: React, Redux, SSR, WebSocket., MediaTek	Front-End
2015	<b>MediaTek Cloud Sandbox:</b> A cloud based data service platform for IoT devices. Keyword: Node.js, Angular 1, SPA, React, Stylus, WebSocket, Google Map, i18n., MediaTek	Front-End
2015	<b>MediaTek Cloud Sandbox Resources:</b> A static web service for MediaTek Cloud Sandbox documents. Built an automatic CI/CD workflow that transform markdown into HTML content. Keyword: Bamboo, CI/CD, S3, React, Stylus, i18n., MediaTek	Front-End
2016	<b>MediaTek Labs:</b> An IoT developer program that provides all the tools and resources to make your IoT and wearable idea a reality. Keyword: Laravel, React, i18n, PWA., MediaTek	Front-End Owner
2014	<b>MediaTek Cloud Sandbox:</b> MediaTek Cloud Sandbox 1.0. Keyword: Angular, Gulp, RESTful, Node.js., MediaTek	Front-End
Jul, 2014	<b>Dr.Find:</b> Visualize medical information in Taiwan, IDEAS Tech hackathon by 財團法人資訊工業策進會	Front-End
Jul, 2013	<b>Assignment Scoring System:</b> A project about scoring assignment online, NTUIM	Fullstack
Jun, 2013	<b>Mina:</b> Real time note sharing, HackNTU	Front-End
May, 2013	<b>Firebox:</b> Play baseball in Firefox OS, Firefox OS App Days	Front-End
2013	<b>EMO-SONG:</b> Recommend music based on your emotion, Web Retrieval and Mining	Data Mining
Oct, 2012	<b>悠活臺北:</b> A service which crawls the Yahoo horoscope and Taipei open data to integrate with Facebook API to recommend the suitable views in Taipei, Yahoo! Open Hack Day	Front-End
2012	<b>Sentiminer:</b> Sentiment analysis, NTU	Text Mining
2012	<b>Rumbleat:</b> What to eat today, NTU Cloud Expo 台大資工雲端手機聯合期末展	Fullstack
2012	<b>Ka.Sza:</b> A android app that you can upload your image to cloud for recognizing, 電信創新應用大賽	Android

## SIDE PROJECTS

Sep, 2019	<b>nextjs-tfjs-cnn</b> : Classifier using Keras VGG16 transfer learning with kaggle dataset., GitHub	Owner
Dec, 2018	<b>imagemin-simple</b> : Replace images with minified one and generate small base64 image., GitHub	Owner
Dec, 2018	<b>hsu-scripts</b> : CLI toolbox for common scripts for npm libraries., GitHub	Owner
Nov, 2018	<b>remark-utils</b> : Reusable utils to build markdown service power by remarkjs and elasticlunr., GitHub	Owner
Oct, 2018	<b>mcs-ui</b> : React components used by MCS., GitHub	Owner
May, 2018	<b>recompose</b> : A React utility belt for function components and higher-order components, GitHub	Contributor
Mar, 2018	<b>react-image-onload</b> : React Image onLoad event., GitHub	Owner
Jan, 2018	<b>react-overlay-pack</b> : Reusable components to build Tooltip, Popover and Dialog., GitHub	Owner
Jan, 2018	<b>react-input-files</b> : Reusable React input file component., GitHub	Owner
Jan, 2018	<b>react-dnd-dropzone</b> : Dropzone with render props built with react-dnd., GitHub	Owner
Jan, 2018	<b>react-intl-macro</b> : Extract react-intl messages with babel-plugin-macros., GitHub	Owner
Jan, 2018	<b>svgr-macro</b> : Run svgr at build-time with babel-plugin-macros., GitHub	Owner
Jan, 2018	<b>babel-plugin-macros</b> : Enables zero-config, importable babel plugins, GitHub	Contributor
Jan, 2018	<b>graphql-macro</b> : Compile GraphQL AST at build-time with babel-plugin-macros, GitHub	Owner
Dec, 2017	<b>react-intl-cra</b> : Extract messages of Create React App from the command line, GitHub	Owner
Dec, 2017	<b>todomvc-subscriptions</b> : Fullstack TodoMVC with GraphQL subscriptions, GitHub	Owner
Nov, 2017	<b>gh-polls-bot</b> : A GitHub App built with Probot that automatically creates gh-polls in GitHub issues, GitHub	Owner
Nov, 2017	<b>micro-website-api</b> : An API microservice that crawls dynamic website powered by puppeteer, GitHub	Owner
Aug, 2017	<b>micro-medium-api</b> : Microservice for fetching the latest posts of Medium with GraphQL, GitHub	Owner
May, 2017	<b>react-progressive-bg-image</b> : Medium style progressive background image for React based on Styled-components, GitHub	Owner
Jan, 2017	<b>mcs-lite</b> : An on-premises IoT cloud platform, which can be quickly built and get started with, GitHub	Owner
Jan, 2017	<b>mcs-lite-ui</b> : MediaTek Cloud Sandbox Lite Common UI and Websites, GitHub	Owner
May, 2016	<b>react-grecaptcha</b> : React.js Google reCAPTCHA v2 integration component, GitHub	Owner
Mar, 2016	<b>react-intl-po</b> : Extract POT from react-intl and convert back to json, GitHub	Owner

## Writing

Nov, 2019	<b>Front-End Practice 2019</b> : Roadmaps for Front-End Developers, Medium	Front-End
Sep, 2019	<b>Inference on the Browser with Tensorflow JS</b> : 以 CNN 分類器，讓 AI 以不同角度切入前端戰場, Medium	AI, Front-End
May, 2018	<b>Deploy a commercial Next.js application with pkg and docker</b> , Medium	DevOps
Dec, 2017	<b>2018 GraphQL 漸進式導入的架構</b> : GraphQL API Gateway with Schema Stitching, Medium	Backend
Nov, 2017	<b>Chrome Headless - Puppeteer 小妙用</b> : 以三個案例來探討應用, Medium	Front-End
Sep, 2017	<b>五分鐘 Kubernetes 有感</b> : 開發工程師也懂的系統架構, Medium	DevOps
Jul, 2017	<b>React Stack 開發體驗與優化策略</b> : Landing Page for MediaTek Cloud Sandbox Lite, Medium	Front-End
May, 2017	<b>Reproducing Medium Style Progressive Image Loading for React</b> , Medium	Front-End
Apr, 2017	<b>Build A Web App in MediaTek</b> : MediaTek Cloud Sandbox Lite Front-End Tech Stack for Mobile, Medium	Front-End
May, 2013	<b>R and Hadoop 整合初體驗</b> , Blog	Data Mining

## Presentation

Nov, 2019	<b>Front-End Practice 2019</b> , MediaTek	Front-End
Dec, 2017	<b>GraphQL - JavaScript Fullstack Solution</b> , MediaTek	Fullstack
Nov, 2014	<b>React-Flux 導讀</b> , NTU 椒鹽分享小聚	Front-End
Oct, 2014	<b>Single Page Application 使用 Angular.js 實現前後端分離式開發模式</b> , NTUIM PrepConf	Front-End

## Honors & Awards

May, 2014	<b>Best Teamwork Award</b> , First competition of Big Data by ETMall	Taipei City, Taiwan
May, 2013	<b>4th Place</b> , Firefox OS App Days - Firebox	Taipei City, Taiwan
Dec, 2012	<b>1st Champion</b> , 臺大雲端創新應用服務競賽 - 台大家教服務平台	Taipei City, Taiwan