Olivia Jing

Personal HomePage

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💼 Work Experience

Joyous Limited (Auckland, CBD)

2023.02 - now   Intermediate Full Stack Developer

- **Automated nudge reminder emails, customizable for timing, audience, and content**

  Applied Tech: **AWS Lambda, CICD, NodeJs, MongoDB, graphQL**
  Mailchimp, MJML
  React, Material UI, TypeScript, react-markdown, @mui/x-date-pickers/DateTimePicker

  I took charge of full stacks development and AWS lambda extension, accomplishing the project which aims to send nudge reminder emails for boosting the engagement of campaign audiences. Implementation involved:

  - A new user interface for customization on scheduling date/time, audience, and platform content.
  - Front and backend validation with updates to existing GraphQL API interfaces and database storage
  - Extension of MicroService infrastructure (AWS lambdas) to support the scheduling behavior and integration with third-party sending tools for delivery through email, SMS, and chat apps (e.g. Slack, Teams).

- **PDF and Excel report generator**

  Applied Tech: **NodeJs, MongoDB, graphQL, TypeScript**
  React, Material UI, exceljs, file-saver, @react-pdf/render, html2canvas

  I was responsible for the tech design, full stack development and testing, including the following stages:

  - Migrated an Excel report generator from an internal system to a user-facing system and ensured SOC2 compliance of the report generator.
  - Refactored the Excel report generation to reduce server load and improve user experience by increasing speed. This result was achieved by optimizing the data structures and removing unnecessary data from being transferred between the API and the frontend.
  - Enhanced the PDF generator to make it adaptable for a large range of report structures while retaining the existing look and feel of the report.

- **Reduce technical debt in SMS resending utility**

  Applied Tech: *React, react-hook-form, Zustand, TypeScript, NodeJs, MongoDB, graphQL*
                   Cypress, Jest Unit Test

  This project is a second iteration of the existing SMS resending feature. Besides the implementation of a new feature, I took charge of making the code more maintainable and readable, this was done by:
  - Improving code maintainability with Structural Refactoring
  - Rename variables to better reflect their purpose
  - Refactor components in line with the Single Responsibility Principle
  - Remove unnecessary and excessive code nesting
  - Enhance code readability by implementing patterns like "Return Early"

- **Live typing indicator for messaging service**

  Applied Tech: *WebSocket, NodeJs, MongoDB, graphQL*
                   React, Material UI, TypeScript

  Be responsible for full-stack of Implementing a live typing indicator into a web app messaging service using WebSockets and GraphQL. Giving participants immediate visual interaction without requiring a page reload.

- **Slack Integration**

  Applied Tech: *AWS API Gateway, AWS Lambda, CICD, NodeJs, TypeScript, MongoDB*

  To improve user communication, expanded contact methods by integrating Slack into our platform. I was responsible for implementing the AWS Lambda sender part which handled the delivery of diversity status documents in the database and ensured seamless integration with Slack's service.

Baidu, Inc

2017.8 - 2021.11   Senior Development Engineer (Technology Title: T6)

- **ONEMIS Platform: an intelligent platform which is able to generate front-end page automatically by configuring JSON**

  Applied Tech: *Vue.js, Vue Material, Vuex, TypeScript, Webpack*
                   Restful API, NodeJs, MongoDB

  I was in charge of front-end and back-end to build the BAIDU Question&Answer Mis configuration platform, which could generate pages directly through JSON configuration without front-end development.
  - Designed database schema and permission system: user, role, group, pages
  - Developed Restful API for all features inside this platform
  - Implemented the components for the atomized combination in front end
  - Regarding to the predesigned schema json rules, parsed JSON into AST and generate corresponding components

- **Smart UI component library: Baidu Smart MiniApp open source component library**

  https://smartprogram.baidu.com/docs/develop/extended/ui_component/howtouse/

  Applied Tech: *Node.js, Webpack, npm node_modules development, mini-program*

  As the co-founder, I come up this idea and cooperated with Senior Product and UI Designers to make this library plan established. Meanwhile, I was responsible for the all technical in the project's architecture design and overall planning.
  - Worked closely with cross-departmental teams to conduct the component library from scratch.
  - Responsible for feature iterations, participated in tasks prioritization, promoting the component library.
  - Also responsible for documents, writing public tech sharing article and making online lessons.
  - In the end, our component library surpassed its competitors, securing second place in the industry.

- **Smartprogram Developer Platform: the management system of Smart MiniApp developers**

  Applied Tech: *React, Redux, Material UI, Webpack, less.js, FIS3*

  As the front end owner, working closely with product managers and designers:
  - Built the platform at the first project phase from design drafts in Figma
  - Conducted all the product features
    - mini program permission management
    - user management
    - user and operation data analysis
    - mini program development configuration
    - advertisement setting
  - Designed components of the whole platform in order to improve the developing efficiency and keep the UX consistency
    - shared form components: input, date-time picker, selection, linkage input, search input
    - shared validation rules: email, phone number, mini program naming and so on
    - dialog component: with or without actions

- **Baidu Essay MiniApp: provides sample essays on diverse topics to enhance essay writing skills**

  Applied Tech: *Webpack, mini-program, less.js, Unit Test*

  Took ownership of refactoring this project, improving the maintainability of the code will greatly enhance the efficiency of this project in future iterations or development. Mainly, steps involves:
  - Adding esLint, cssLint checks in development workflow
  - Abstracting common components, reused them in the projects
  - Reducing unnecessary code
  - Renaming poorly named methods or variables
  - Dividing large files into more manageable sections
  - Adding Unit Test of core functions

CITIC Application Service Provider Co.,Ltd

2015.7 - 2017.5   Front End Engineer

- **CITIC HR Management System: an internal human resource management system which could help banks to manage staffs and improve the efficiency of operation.**

Applied Tech: *jQuery, CSS, HTML, Javascript*

Conducted daily iteration of the system's features, including the permission tree component, the modal component, the form components, the message center and so on.

Qunar (travel search engine)

2014.7- 2015.4   Marketing Management Traineer

- **International air tickets department market & public relationship strategy assistant**

Assist in cooperating with public welfare activities and film distributors on advertising to enhance brand influence, including AD poster design, activity & topic brainstorming creativity.

Education

Xiamen University (985 project)

2010.9- 2014.6   Bachelor of Engineering in Chemical Engineering and Technology

University of Auckland

2022.2 - 2022.10   PGC Information Technology   GPA (9/9)

Certification & Honour

AWS Certified Cloud Practitioner

Awarded by Baidu, China's largest online search engine company

- Baidu Best Team Award in Dec, 2018
- The technical title of Research&Development Engineer was promoted from T4 to T5 in Oct, 2019
- Q2-MEG Baidu Xiaozan Individual Award in 30th, Jun, 2020
- Baidu Xiaozan Individual Award in 30th, Dec, 2020
- Technical title of Research&Development Engineer was promoted from T5 to T6

Awarded by University of Auckland

- Certificate of Outstanding Achievemen in COMPSCI 719 : Programming with Web Technologies
- Certificate of Outstanding Achievemen in COMPSCI 718 : Programming for Industry Science

Self Evaluation

1. **A creative problem Solver**

2. **A curious knowledge Learner**

3. **An extremely responsible Owner**

4. **A strong executive Member**