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| **Chengkai Jiang**  La Jolla, CA, 92037 || (858) 319-9011 || [kaijiang0411@gmail.com](mailto:kaijiang0411@gmail.com)  [linkedin.com/in/chengkaiJiang](https://www.linkedin.com/in/chengkaiJiang) || [github.com/chengkaiJ](https://github.com/chengkaiJ) | | | | |
| **EDUCATION** | | | | |
| **University of California San Diego**  Master of Science in Computer Engineering  Coursework**:** Operating System, Computer Network,Machine Learning, Graph Theory  **University of Nottingham**  Bachelor of Engineering in Electrical and Electronic Engineering | (GPA: 3.97/ 4.0, Top 3)  Nottingham Engineering Excellence Scheme (Top 5) | | | La Jolla, U.S.  Mar. 2021-Dec. 2022  Nottingham, U.K.  Sep.2015-Jul. 2019 | |
| **SKILLS** | | | | |
| **Programming Languages:** | Java, C++, Python, JavaScript, SQL, Assembly | | | |
| **Cloud/Web Development:** | AWS, Amazon RDS, AJAX, React.js, Vue.js, Android, HTML 5.0 | | | |
| **Tools/Skills:** | RESTful, MongoDB, Redis, Spring, Hibernate, MySQL, TensorFlow, OOD, GIT | | | |
| **WORK EXPERIENCE** | | | | |
| **Amazon**  *Software Engineer Intern* | | | | Irvine, US  Jun.-Sep. 2022 |
| * Designed Amazon’s first No Commitment Free Trial for an Alexa Skill to improve customer experience. * Worked with a product manager to discuss and specify customer experience improvements. * Studied the complex architecture of large-scale internal services that handle all voice purchases through Alexa. * Designed a mechanism that coordinates internal services to automatically enroll users into free trials without asking. When the trial is ending soon, gives a prompt to let users decide whether to enroll in the paid subscription. * Implemented the design in the large-scale service and add necessary modifications to upstream services. * Utilized A/B testing to control the affected customer groups and added gates to ensure only a portion of requests are directed to this new feature. * Launched in October and increased free trial conversion rate by **7%.** | | | | |
| **Alibaba Group**  *Software Engineer Intern* | | | | Hangzhou, China  May-Aug. 2021 |
| * Worked with **10+** engineers on thepersonalization of the Alipay mobile app home page, handling **billions** of requests per day. * Developed a debugging tool that visualizes execution results and the elapsed time of the parallel execution pipelines in a user-understanding service using **SpringBoot** and **Log4j**, simplifying the debugging process for the team. * Designed a personalized recall service that queries items from the **Alibaba Cloud ODPS** based on the user features extracted from an internal tool, including location, time, and the community the user belongs to. * Solved the **Multi-Armed Bandit**problem of ranking **100+** items for recommendation by analyzing click-through rates and employing the **Thompson Sampling** algorithm. * Improved the accuracy of the feed by implementing an item filter based on the order history and Not-Interested records. * Learned and utilized internal infrastructures for different development and test stages, managed to push the project to production, and achieved a **5%** increase in overall **click-through rate**. | | | | |
| **PROJECTS** | | | | |
| **GetPaid:** Job Search and **Recommendation** | | Mar. 2021-Apr. 2021 | | |
| * Designed an interactive web page (HTML, CSS, JavaScript, **AJAX**) for users to search positions and apply online. * Improved personalized position recommendation by exploiting search history and favorite records (**u2i2i**). * Implemented Java servlets with **RESTful** APIs to handle **HTTP** requests and responses. * Used **MySQL** to store real-world position data (company, requirement, deadline, etc.) and deployed it to **Amazon RDS** for scalability. * Researched and practiced the deployment to **Amazon EC2** for better performance. | | | | |
| **S-Mall:** A **Spring** and **Hibernate** based Shopping and Ordering system | | Feb. 2021-Mar. 2021 | | |
| * Built a web application based on **Spring MVC** to support item search and listing (**dependency injection**, **inversion of control,** REST API, etc.). * Implemented security workflow via in-memory and **JDBC** authentication provided by **Spring Security** and developed a **Spring Web Flow** to support item ordering, and utilized **Hibernate** to provide better support of database operations. | | | | |
| **WhatsNew:** An Instagram Flavor News app based on Google Component **MVVM** Pattern. | | | Jan. 2021-Feb. 2021 | |
| * Implemented the bottom bar & page navigation using **the JetPack** navigation component. * Utilized 3rd party **CardStackView** (RecyclerView) to support swipe gestures for liking/disliking the news. * Built the Room Database with **LiveData** & **ViewModel** to support a local cache and offline model. * Integrated **Retrofit** and LiveData to pull the latest news data from a RESTFUL endpoint (newsapi.org). | | | | |