Sebastian Su

📱 *650-335-8780*
✉ *sebzsu1299@gmail.com*
🌐 *SebastianSu.com*
linkedin.com/in/sebzsu1299

Education

Fall 2015 -
Fall 2019
B.S. Computer Science, *University of California, Berkeley*.
Relevant Courses: Efficient Algorithms, Data Structures, Database System, Priciples and Techniques of Data Science, Artificial Intelligence

Work Experience

October 2020 -
Current
Software Engineer, *Michaels (michaels.com)*, San Jose, CA.
- Part of company-wide initiative to completely redesign Michael's online ecommerce experience
- Full stack engineer in charge of both designing and implementing key customer facing features in the Customer Resolution team
- Backend: services such as authorization and authentication in customer care portal using JWT and Sprint AOP, In-App Messaging, and user registration involving login/logout, activation and passwords reset using Sprint Boots
- Frontend: build variety of web pages such as User Search, Listing Management, Order Management, and Seller Dashboard using React, Redux, and JavaScript

Jan 2018 -
August 2019
Software Engineer, *Qcompass Voyage Limited (qeeq.com)*, Hong Kong, China.
- As part of this startup that provides car rental services in 160+ countries, I worked as part Full Stack Software Engineer and part Data Analyst focused primarily on pricing strategy
- Data Analytics: designed, built, and launched data analytics used by 200+ internal customers daily from product, marketing, and finance teams using JavaScript, Highcharts JS and Power BI
- Data Processing: optimized existing data pipelines and automated large scale data processing systms, with data quality checks.
- Data Modeling: deploy AI and ML regression algorithms for competitive pricing models

Projects

Spring 2021
In-App messaging.
- Designed and implemented an in-app messaging service for buyers and sellers to communicate (Sending texts and images) in online marketplace
- Implemented APIs to store and retreive recent contacts, tagged conversations, and unread messages count
- Developed notification system integrated with Twilio's API to improve user engagements
- Lead implementation of new feature that adds broadcast message service support

Fall 2020
IAM: Identity and Access Management.
- Designed and implemented an Identity and Access control management service with RBAC for an internal customer care portal
- Built RESTful API for (CRUD) users, roles, and permissions, and create/delete user-to-roles and role-to-permissions mapping
- Implemented activity log for read/write operations for important resources using Spring AOP with multi-threading
- Implemented schedule task and smtp email service for notification of change and alerts

Spring 2019
Relational Database Management System.
- Developed a Relational Database Management System using Java which supports SQL operations such as conditional statements, table joining, column operations, column select, and file recovery
- Implemented B+ tree for dynamic multilevel file indexing with bulkloading
- Implemented join algorithms (PNLJ, BNLJ, External Sort Join, Sort Merge Join) and System R query optimizer
- Implemented write-ahead logging and ARIES recovery manager

Fall 2018
Apache Flink Optimization.
- Built a streaming data application to aggregate search data and visualize search event click-through rate for travel marketing channels such as top 50 travel destinations
- Made substantial improvements in terms of query time, latency, throughput, and cached data in database

Skills

Programming	Java, Python, JavaScript, HTML, CSS
Software	Sprint Boot, MySQL, MongoDB, Couchbase, Kafka, Flink, Jmeter, React.js
	Redux, Docker, AOP, Redis, Cassandra
Data Science	TensorFlow, PyTorch, Pandas, Power BI, Tableau