Dexter Gao

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SKILLS

Programming Languages: Java, C++, C#, Python, JavaScript, SQL, HTML, CSS

Tools/Frameworks: React, Tomcat, Spring, .NET, WCF, TensorFlow, PyTorch, Numpy, Keras, OpenCV Cloud/Databases: AWS RDS, GCP, ElasticSearch, Firebase, MySQL, MongoDB, NoSQL, PostgreSQL

Mobile: Android Studio, XCode, Swift, Flutter

WORK EXPERIENCE

Software Engineer Intern, Stoneye.ai, Sunnyvale, CA

May. 2023 - Present

- The team of TinyTalk App, a multimedia storytelling app serves parents & children by leveraging large generative AI models.
- Contribute to the development of automating the open-source generative AI flow based on application design.
- Specifically worked on prompt engineering and REST transmitting of language model & image model.
- Research, experiment & perform output verification, data wrangling, content security, and abuse prevention.
- Imagining, Prototyping, and adopting new features between models and the integrated mobile frontend via Flutter.

Technical Designer, Gensler, San Jose, CA

Dec. 2021-May 2023

- With the Google Landings HQ envelope team, generated innovative design & technology solutions.
- Iterated implementations of existing functions of internal tool of efficiency "sheet note manager" by C++.
- Improved the processing time of designate operations by over 90%, saving cost of billable labor by 10+ hr.

Designer, LSM, Washington, D.C.

Jun. 2020-Dec. 2021

EDUCATION

Georgia Institute of Technology, Atlanta, GA
Columbia University, New York, NY
Sun Yat-sen University, Guangzhou, China
M.S. Computer Science - GPA: 4.0
Master's degree - Architecture
Bachelor's degree - Engineering

PROJECTS

Job+: AWS-based Web Service Development - Job Recommendation Engine

(Passion)

- Developed an interactive web page for users to search job positions (AdzunaAPI, HTML, JavaScript, AJAX)
- Used favorite records to provide a personalized recommendation.
- Created Java servlets with **REST** APIs to handle HTTP requests and responses
- Built MySQL database on Amazon RDS to store accurate business data from Ticketmaster API
- Designed algorithms (e.g., content-based recommendation) to implement business recommendation
- Deployed to **Amazon EC2** and used Apache JMeter to perform load test (150 QPS).

Realm: a Spring-Based Online Shopping App

(Passion)

- Built a web app based on **Spring MVC** to support item search and listing(dependency injection, inversion of control, REST).
- Implementing security workflow via in-memory and JDBC authentication provided by Spring Security.
- Utilized **Hibernate** to optimize database operations.
- Developed an order fulfillment system by AWS Lambda & AWS Step Functions.

NBA Viz: React JS-based NBA Player Strength Visualization

(Passion)

- Created a dashboard using React, D3, and Ant Design backed by data crawled from stats.nba.com
- Visualize individual players' shot data, including a shot chart and user profile view.
- Created multiple extra filters and shot themes(hexbin and scatter) to provide more customized visualization on the shot chart.
- Developed an autocomplete player search bar providing a list of players in the suggestion list.

DrivA: LBS-based Android App for smart driving

(Passion)

- Developed an **Android** App for users to post alerts and receive nearby alerts such as speeding, police, traffic, drunk, etc.
- Integrated Google Map API to display the nearby hot alerts and navigate to avoid traffic.
- Used Google Firebase to store and manage UGC including comments, images, descriptions, titles, and geolocations.
- Improved the UI/UX flow with **Animation**, ToolBar/ActionBar, etc.
- Implemented the view pager to hold the login and register fragments.
- Utilized Android Broadcast Intent to handle inter-communication between drivers and passengers.
- Handled the speed recognition intent to handle simple voice control.

A CNN-based Gesture Control Smart Home Portal

(Academic)

- Developed a smart home app that allows gestures to control appliances. Gestures are pre-trained from user-uploaded videos.
- Based on the supervised CNN model and the feature extractor using API from OpenCV, developed the app by Android Studio.
- Worked independently during the entire training, testing, and design/development process from ideation to deployment.