Daesol Jung

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EDUCATION

University of Toronto: Sep 2017 - Dec 2023
Majors: Cognitive Science and Computer Science
Relevant Course Work: Software Design, Data Structure and Analysis, Probability and Statistics, Computational Statistics

WORK EXPERIENCE

Company: KITG. Mago Department
Role: Full-Stack Engineer Internship. **Duration**: May 2020 - Aug 2020

- Developed a streamlined web-scraping pipeline with BeautifulSoup, extracting metadata and royalty-free media from targeted websites for a 90% faster data acquisition and improved storage management by 40%, while adhering to legal and ethical guidelines.
- Facilitated storage, and organization of media files using NoSQL data structure, and designed accessible user interface for admin users to manage media files resulting in a 80% reducing in content management and processing time.
- Created a web-scraping pipeline, that aggregates files meta data into CSV file, and store references to Firebase, reducing labour costs by 90% and collection time by 95%.

TEAM PROJECTS

Project: Fable.social
Role: Software Engineer, Expo Developer, UI/UX Designer. **Duration:** Jul 2019 - Current

- Led a remote team of 5 full-stack engineers, utilizing waterfall and agile method, continuous integration, product backlogs, and test-driven development to create a responsive web application for students and clubs and resulting 15% development efficiency.
- Registered 150+ clubs and implemented secure account authentication through Firebase Google Auth API.
- Designed a service-oriented architecture to enhance scalability and reduce dependencies, and implemented chat feature using CometChat API; decreased system response time and communication time by 40% and improved overall system performance.
- Created an Instagram contact python scraper to store and send scheduled emails to 1,400 university clubs. Reduced 90% of labour time, and increased response and sign-up rate by 10%.
- Currently developing mobile version using Expo Go, React Native, Firebase, and AWS Lambda that can serve up to 100,000 users.

Project: Simulence
Role: Backend Developer. **Duration:** Sep 2022 - Dec 2022

- Collaborated with 10 developers to build a game testing platform that enabled real-time note-taking and recording of user gameplay; facilitated easier information sharing and enhanced analysis accuracy, leading to quicker issue resolution and higher quality feedback.
- Authenticated 50+ game developers and recorded over 20 game and survey data.
- Leveraged Trello boards for error tracking and task management, facilitating efficient communication through weekly meetings on Discord to distribute tasks, report progress, and actively address backend data communication and bug resolution.

Project: Auction Platform
Role: Backend Developer, Data structure. **Duration:** Oct 2021 Dec 2021

- Developed a backend data library and pipeline in collaboration with three data scientists, enabling storage and updating of over 10,000 customer records for user registration, login, purchasing, selling, and auctioning.
- Employed SOLID design principles to implement three essential Java design patterns (Factory, Composition, Template, LSP), ensuring effective auction management.
- Engineered a data pipeline to capture customer data, game data, ownerships, and transactions, with data stored in three JSON files (Java, JSON).

PERSONAL PROJECTS

Project: Summarize.this Chrome Extension

- Built a Chrome extension using Transcript and ChatGPT APIs to fetch YouTube transcripts and deliver concise video summaries, enhancing the user experience and saving viewers 15 minutes per video on average.
- Deployed a Flask server enabling seamless integration of REST API calls, bridging the gap in compatibility between the chrome extention and Python.

ADITIONAL INFORMATION: Demonstrated exceptional problem-solving abilities by completing Google FooBar Challenge.
Keywords: teamwork, leader, excellent communication, api, REST api, python, flask, SQL, No-SQL, java, javascript, typescript, react, react-native, expo, HTML5, CSS3 json, figma, dependency injection