Fanying Ye

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Experience

Full-Stack Software Engineer - OwnerIQ, *Boston, MA*   08/2016 - present

- Leading Logins and User Management Project (08/2018 - 02/2019), reduced related app support ticket numbers to nearly 0
  - Project Description:
    - Revamped and more secure login and password reset experience by updating authentication from hashed password match to the integration of AaaS vendor
    - Redefined external and internal user roles and new user management experience in admin
    - New self serve user management, including bulk access to children accounts from a parent account
    - New welcome and password reset emails in Sendgrid
    - Platform admin user reporting: number of sessions with timestamps, date of the first session, date of the last session
  - Tech Stack and Service Integrated: Django, React, MySQL, Sendgrid, Auth0
  - Responsibilities:
    - AaaS vendors comparison
    - Review business specifications and provide feedback including:
      - Validation of any quantitative assertions made in business specifications by way of database queries, code analysis, etc
      - Impact assessment of any proposed usage of existing processes on system resources (database query efficiency, ETL timing, file storage, etc)
    - Based on industry and organizational best practices provide a technical specification including:
      - Data Model / Database Schema
      - Entity-relationship diagrams describing relevant system architecture
      - Summary of notable algorithm implementation
      - Impact assessment of any new process on system resources (database query efficiency, CPU usage, ETL timing, file storage, etc)
      - Technical descriptions of new and changed components and descriptions of any new external software dependencies
    - Follow organization and industry best practices for code style and object-oriented design
    - Following a test-driven design methodology, using documented framework-specific guidelines, implement unit-tests based on use cases described in business specification
    - Write SQL DDL and migration queries to implement, alter and populate data models as described in the technical specification
- Back-End development using Django, celery, MySQL, Redshift, RabbitMQ, Airflow, Kafka
- Front-End development using React, Backbone.js with agile methodologies for maintaining and developing both customer facing and internal web services
- Continually improve software architecture and performance

Technical Skills

Programming Languages: Python, Javascript, Java
Web Development: Django, React, Typescript, Backbone.js, CSS, AJAX, HTML5
Databases: MySQL, PostgreSQL, Couchbase
Other: Linux, Shell, AWS, npm, apache server, RabbitMQ, Kafka, Airflow, Maven, Git, Jenkins, Jira

Education

Tufts University M.S. in Electrical and Computer Engineering   2014 – 2016
GPA: 3.88/4.00

Beijing Institute of Technology B.S. in Electronic Science and Technology   2010 – 2014
GPA: 90.37/100