

Experience

Full-Stack Software Engineer – OwnerIQ, Boston, MA

08/2014 – Present

- 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
- Review business specifications and provide feedback including:
 - Validation of any quantitative assertions made in business specifications by way of database query, 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 and 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 description of any new external software dependencies
- Follow organization and industry best practices for code style and object-oriented design
- Write SQL DDL and migration queries to implement, alter and populate data models as described in technical specification
- Following a test-driven design methodology, using documented framework-specific guidelines, implement unit-tests based on use cases described in business specification
- Continually improve software architecture and performance

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

Technical Skills

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

Academic Projects

- Implemented the most critical features of the product and deployed it to production using Heroku and AWS S3
- Provided test for using Rspec testing framework
- Optimized static content using technics like Expiry, Content Delivery Network, Gzip, etc
- Implemented RESTful APIs using Grape for product
- Implemented AJAX dynamic polling for new incidents together with Redis to do memory caching
- Implemented real-time communication with WebSocket Faye