Shea O'Rourke

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Education

Northeastern University, Boston, MA   Fall 2018 – May 2022
B.A. in Computer Science, Minor in Mandarin Chinese   GPA: 3.6 / 4.00

Work Experience

Jellyfish, Boston, MA | Software Engineering Co-op   January – August 2021
- Developed an Engineering management SaaS web app to assist companies with managing engineering teams
- Collected and analyzed customer Engineering data to construct analytical dashboards used by 1000+ users
- Constructed a data freshness monitoring web page internally used by all of Customer Success and Engineering
- Improved customer data processing times by up to 80% by establishing new dataflow pipelines with Prefect
- Reduced errors in company software agents by 55% by creating error reports in Slack using AWS CloudWatch

Acquia, Boston, MA | Cloud Engineering Co-op   January – August 2020
- Implemented company-wide server monitoring, improving visibility and debugging time across Engineering
- Maintained internal CI/CD systems within an Agile Development workspace on a Platform/Orchestration team
- Centralized data across SQL databases, creating hooks in Acquia's PHP API to upload server state to AWS S3
- Collaborated with product owners and developers to prioritize, build, and deploy internal product features

Projects

Customer Data Freshness Monitor, Jellyfish - Full Stack/Owner   January – August 2021
- Established a REST API in a Python/Django backend to monitor and manage customer data processes
- Constructed dashboards and visualizations of customer processes in a React-based front-end using Typescript
- Increased visibility on customer errors by announcing when processes fail, leading to faster error resolution
- Decreased the run time of updating customer data by several hours by splitting the job into scalable pipelines
- Adopted a vertical slicing approach to planning, increasing project adaptability and transparency
- Built data refresh runtime estimations, users are more aware of when customer data will be up to date

Server Monitoring Website, Acquia - Full Stack/Owner   January – August 2020
- Led development on a Ruby-based web app following REST design to visualize the state of Acquia's servers
- Improved the ability for teams across R&D to debug problems and communicate domain-specific information
- Visualized software releases with a monitoring dashboard, better enabling continuous delivery/integration
- Built each page as a microservice, removing language dependencies and parallelizing cross-team development
- Designed the UI using a Bootstrap-based framework to allow users to easily navigate, compare, and filter data

Nibble   September 2020 – January 2021
- Built a React-based web app for users to save, create, and search for recipes collected from 100+ recipe blogs
- Setup a Node API to interface with a third-party recipe API and MySQL Database to store and access site data
- Stored common search terms in a Prefix Tree to provide autocomplete suggestions for users in the search bar

Spreadsheet Web App   September 2021 – Present
- Designed a web application in Typescript and React, providing the core functionality of a spreadsheet
- Enhanced user ability to analyze data by implementing dynamic heatmaps with conditional formatting
- Reduced user input error by providing data validation, users may set rules for what inputs each cell can accept

Technical Skills

Python | Javascript / Typescript | React | Ruby | SQL / PostgreSQL | Java | Django | AWS | HTML | CSS | Git | Atlassian