Mary Clark

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Full stack software engineer with 7 years of experience.

Experience

Senior Software Engineer
Apr 2023 – Present — Cloverly • Remote

- Designed, implemented, and owned REST API capabilities for Catalyst, Cloverly's new platform for carbon credit suppliers to manage their inventory, on a fast-paced Agile team.
  - Successfully delivered a suite of back-end capabilities for Catalyst's first paid client on an extremely rapid 2 week turnaround.
  - Worked closely with engineering team, product lead, and design lead to align back-end capabilities with UI features.
- Deployed applications to AWS ECS using GitLab CI/CD; monitored application performance with Sentry.
- Teamed up with design lead to create an internal Retool app during a 3-day hackathon for generating Google Slides presentations from internal inventory data.

Senior Software Systems Engineer
Apr 2022 – March 2023 — MITRE • McLean, VA

- Designed and built data ingest tools for multiple datasets to extract up to millions of records and transform them for a data warehouse.
  - Extracted data from remote ingest sources such as Snowflake and AWS S3 buckets.
  - Collaborated with data analysts upstream for review and feedback on the data transformation output.
- Designed and developed a modular Python library for creating data analysis pipelines, based on an existing MATLAB prototype.
  - Created a microservice for the library to integrate with an existing Django application.

Software Systems Engineer
Aug 2019 – Apr 2022 — MITRE • McLean, VA

- Productionized an existing Python REST API prototype and developed a multi-container Docker system for its deployment that included Redis and JupyterHub.
  - Added the capability to interface with the system's REST API to 2 external applications and integrated JupyterHub with an existing authentication service.
  - Deployed updates for new system requirements and coordinated with stakeholders on version capabilities.
- Built Python and Java applications to stream and time-synchronize data from a Tobii Glasses 3 unit and a Polar H10 unit using Lab Streaming Layer (LSL) and the sensors' APIs.
  - Communicated with customers after delivery to discuss setup, deliver bug fixes, and provide documentation.
- Worked closely with team members, analysts, users, and sponsors to define requirements for projects. Traveled to meet directly with stakeholders and communicated feedback and requirements back to the team.
- Created components for several React applications to demo REST API capabilities.

Skills

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS/SASS
Tools and Frameworks: FastAPI, Flask, Git, React.js, Jira, Docker
Datastores: PostgreSQL, Elasticsearch, Redis

Education

B.S. in Computer Science
Aug 2013 – May 2017 — University of Mary Washington • Fredericksburg, VA

- Graduated Magna Cum Laude with 3.6 GPA. Minored in digital studies and data science.
- Awarded the Ralph A. Niemann Scholarship in Computer Science in 2016.
- Completed undergraduate research simulating restaurant wait times with Wi-Fi packet data during the summer of 2015. Presented results at the 2016 Summer Simulation Multi-Conference in Montréal.