

# Samuel Glass

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## TECHNICAL SKILLS

**Expert:** JavaScript/TypeScript, React, Redux, Node.js

**Proficient:** CSS, Python, C++, SQL, Jenkins, Grafana, Humio, Websockets, OAuth2

**Familiar:** Django, Flask, Ruby on Rails, Docker, Kafka, AWS, Postgres, MongoDB, Kubernetes

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## EXPERIENCE

### BLOOMBERG L.P.

**Senior Software Engineer** | *Feb 2022 – May 2024*

- Responsible for architecting and leading development of voice memo capabilities in Bloomberg's instant messenger
- Decreased memory footprint and latency of proprietary tabular data calculation platform responsible for delivering 3-5 million messages per day with 100% accuracy
- Developed node.js CLI tool for instrumenting applications with Bloomberg's SLO monitoring solution
- Led initiative to improve observability in Grafana with a focus on "Four Golden Signals" from the Google SRE handbook
- Collaborated closely with UX, product, and backend teams to ensure intuitive and performant recording, sending, and playback of audio clips
- Analyzed and fixed performance issues reported by clients in NYC, London, and Hong Kong using Chrome Dev Tools (flamegraphs and heap snapshots) and other proprietary performance inspection tooling
- Add logic to Python service for programmatically fetching and parsing logfiles

**Software Engineer** | *April 2019 – Feb 2022*

- Responsible for architecture, development and integration of greenfield initiative to migrate lightweight version of Bloomberg's instant messenger to the web
- Developed a secure websocket server that consumed a Kafka topic to send messages to a React client
- Created RESTful Python services with Django and Flask
- Created and led development on Bloomberg's first browser-based logging tool for web clients, later adopted as recommended logging tool for web applications according to Bloomberg's Web DevX Working Group
- Mentored a new hire and guided them through improvements to high-visibility application with proprietary JS library frontend and C++ backend
- Assumed ownership of Bloomberg Terminal application OAS1 and overhauled its interface and functionality by improving or, where necessary, fixing features and UI related to single and

multi-path structured product cashflow analytics

## **CEDRUS DIGITAL**

**Software Engineer** | *May 2018 – April 2019*

- Wrote Node.js scripts to leverage AWS DMS in migrating data from Oracle DB to AWS DynamoDB and MySQL RDS
  - Overhauled legacy Angular frontend to updated Angular 2, adding (submodules, lazy loading, and reusable components
  - Created GraphQL API with AWS Appsync to interact with microservices
  - Implemented Apache Kafka to increase data durability and throughput of microservice architecture
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## ***EDUCATION***

**Tulane University**

*B.A. English and Medieval Studies, cum laude*