Joshua Marple | Software Engineer

+1 (785) 409 9094 • joshua.d.marple@gmail.com • gitlab.com/jmarple

Experience

Google

Software Engineer - Data Pipelines and Visualization *June 2016–Present*

- Used differential privacy techniques to determine heavy hitters of
- Rewrote pipeline infrastructure for mobile system health metrics across Google
- Improved privacy and security for logs data through anonymization techniques and access controls
- Enabled teams to use experimentation on their system health records by pre-processing and aggregating large amounts of data
- Established team-wide oncall procedures and post-mortem standards
- Revamped Google Ads promotional codes, simplifying procedures needed for marketers to monitor incentive campaigns and implementing large system improvements
- Developed a framework for processing database actions via PubSub
- Prepared org-wide presentations over the above framework and provided support to framework clients

Kyruus

Software Engineering Intern *May 2015–August 2015*

- Improved matching rate of text search on medical school names using ElasticSearch
- Refactored MapReduce jobs for processing large-scale data
- Implemented separate environments for dev/prod and automated deployments using Jenkins

Schalk Labs

Undergraduate Researcher *May 2014–August 2014*

- Co-authored a paper on examining brain wave activity
- Independently developed a custom MATLAB toolbox

KU Speech and Language Lab

Undergraduate Researcher *Jan 2014–June 2016*

- Acquired EEG data and ran scientific studies
- Created an EOG study and developed a model to interpret eye movements
- Received multiple undergraduate research grants

Perceptive Software

Software Engineering Intern *June 2013–May 2014*

- Developed RESTful automatic server deployment applications
- Implemented a testing framework for cloud deployments

Education

B.Sc Computer Science, 3.81 Major GPA **University of Kansas**

Minor Mathematics *2012–2016*

Projects

Emerald: Developing a web app for budgeting software that allows users to model income and forecast retirement outcomes.

MATLAB ECOG Analysis Toolbox: Independently developed an ECOG Analysis toolbox in MATLAB, which was used to analyze large sets of data for a research publication.

Publications