Matthew Jourard

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Skills

- Languages: PHP, JavaScript, Go, Bash, Python, Java, SQL (MySQL, T-SQL, PostgreSQL, PrestoDB)

- Frameworks: AngularJS, React, Angular, jQuery, Bootstrap, Material Design, Symfony

- Deployment Tools: NPM, Composer, WebPack, Docker, Serverless, Jenkins, CloudFormation

- Other Technologies: Nginx, Redis, FluentD, Prometheus, Git

- AWS Services: EC2, S3, RDS, IAM, ElastiCache, CodeDeploy, Lambda, Kinesis Firehose, API Gateway, DynamoDB, Athena, RedShift, Route 53, CloudFront, CloudFormation

Work Experience

Adknown Inc.   Guelph, Ontario

Software Engineer   Jan. 2018 – Mar. 2020

- Extended the user session recording script tag to have a data processing pipeline utilizing AWS Lambda and Go. Incorporated Apex (https://apex.run) and Grunt for consistent 1-command deployments. Processed over 90k sessions per day, with each session creating ~500 events.

- Built a web portal for searching and viewing recorded user sessions using HTML5, CSS3 + Bootstrap and JavaScript.

- Managed the company Grafana cluster and created a Grafana plugin for Scalyr. Allowed us to visualize traffic patterns and the effects our changes had on metrics such as click-through rates.

- Built 'suspicious user' detection tools using various browser JavaScript APIs which lead to higher quality traffic.

- Utilized the Adwords and Facebook For Business APIs to build data pipeline tools for our Campaign Managers.

- Researched and planned for migrating our main session management software and database from IBM Softlayer to AWS.

- Championed the use of Docker for development, which allowed us to easily replicate dev environments to local machines for easier onboarding of new devs.

- Was the main resource for all questions related to Docker, Go, JavaScript and Apex.

Adknown Inc.   Guelph, Ontario

Software Engineer (Contract)   Sept. 2017 – Dec. 2017

- Managed and maintained the traffic quality testing environment leading to 99% uptime and no data loss.

- Created a user session recording script tag and data pipeline using JavaScript and PHP, hosted in AWS using CloudFront, EC2, Kinesis Firehose and S3.

Adknown Inc.   Guelph, Ontario

Software Engineer (Co-op)   Jan. 2016 – Aug. 2016

- Managed and maintained the Mobile Real Time Bidding platform written in PHP and utilizing Redis, MySQL and hosted in AWS using EC2 Auto Scaling.

- Added new suite of functional tests which allowed for v2 to be released with confidence.

- Replaced their homebrewed bid recording system with fluentd, eliminating the dataloss caused by the bugs of the homebrewed system.

Trans Plus Systems Corp.   Guelph, Ontario

Developer (Co-op)   Apr. 2015 – Sept. 2015

- Replicated and fixed defects as they were reported using VB.NET and C#.NET.

- Worked with Product Services in diagnosing defects and coming up with possible work arounds while the defect fixes were in the release pipeline.

Education

University of Guelph   Guelph, Ontario

Bachelor of Computing   Sept. 2012 – Dec. 2017

- Majored in Computer Science, Honours (Co-op)

Relevant Courses and Projects

- CIS*3490 – Analysis and Design of Computer Algorithms

- Trick or Eat – https://github.com/mjourard/trick-or-eat-demo

  - Web app for running the annual trick-or-eat food drive by Meal Exchange

- Family Photos – https://github.com/mjourard/family-photos

  - React app for displaying photos like a scrap book

References are available upon request