Contact

Name	Mike Olson
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Objective

Primary	Front-End Software Engineer
Secondary	Node.js Full-stack Engineer
Role	Sr. Engineer / Principal

Preferred stack
React / Redux / JS ES6 / node.js / Enzyme / styled

Technical Skills

Languages	JavaScript, Clojure, Java, C/C++, Bash
Frameworks	Express, React, Redux, JSON, XML
Web	HTML5, CSS3, ES6, SASS, styled, BEM
Build Tools	webpack, npm, gulp, grunt, Docker
Testing	Mocha, Jest, Enzyme, Nightwatch
Database	MySQL, PostgreSQL

Professional Experience

TigerText

Position	Sr. Web Software Engineer
Location	Santa Monica, CA
URL	https://www.tigertext.com/
Duration	Feb. 2017 - present

Improved page load performance and build performance of the new React messenger app, as well as delivering features to close the gap with the existing site. Mentored engineers and added linters to the project to speed up code reviews and catch mistakes early. Worked with QA to diagnose and fix open production issues. Improved various features on the existing messenger app, which is used by doctors and nurses at hospitals to reduce the number of fatal accidents, improve staff retention and happiness, and cut wait times for the ER by about half.

Bridg

Position	Software Engineer
Location	Los Angeles, CA
URL	http://www.bridg.com/
Duration	Oct. 2016 - Jan. 2017

Wrote a clean and beautiful responsive analytics graph using React/Redux/Recharts/Ramda. Wrote and extended microservices in Node.js and Clojure. Emphasis on clean code, quality, test coverage, functional programming, and maintainability.

Ticketmaster

Position	Sr. Software Engineer
Location	West Hollywood, CA
URL	http://ticketmaster.com/
Duration	Mar. 2008 - Oct. 2016

Since Dec 2014, helped re-envision and rewrite the event (product) details website: responsive, mobile-first, React early adoption, A/B tests, feature flags, Java on server-side. Wrote and open-sourced a tool called jest-webpack-alias to help test React code, integrating Jest and Webpack. Wrote code-migration tool (codemod) to programatically apply file layout changes to JS code and update "require()" statements. Mentored other engineers: pair programming, code reviews. Participated and led discussion within the internal frontend working group to choose new technologies and approaches. Wrote well-received POC to automatically record test fixtures using a combination of Express and Yakbak. Wrote training material for new hires to explain the technical heritage and culture of the website team.

In summer 2016, installed CDN in front of an existing data service for a 15x performance improvement, worked with the Fastly support team to achieve an unexpectedly high cache hit ratio, demo'd results to the executive team, wrote Bash test suite to ensure bug-free migration to that setup, and then Dockerized that data service. Identified and addressed issues with GC pauses and reliability while on-call.

In 2013, launched a REST node.js backend service for order details with 1 million hits/day. Gathered requirements from multiple stakeholders to construct the API. Implemented DB connection pool, dark launch to sort out bugs, custom TCP clients for legacy services, early Promise-like implementation, patterns for async control flow, detailed logging with request IDs, analytics dashboards. Participated on the Ticketmaster Architecture Review Board.

Since 2008 on the old Perl website, implemented Facebook Graph API integration, Interactive Seat Map widget on the event detail page. Improved performance of mouseover tooltips (DOM diffs). Spearheaded a successful proposal to

migrate codebases from Subversion to Git, and led the decision to select GitLab for on-prem code hosting.

HCoop, Inc.

Position	Volunteer Sysadmin
URL	http://hcoop.net/
Duration	Oct. 2006 - Mar. 2009

HCoop is a unique organization in which many users (acting as a co-operative) would pool monthly dues to keep a web server running, using Kerberos and AFS to provide privilege separation for securely running multiple different services and providing filesystem access.

I planned, documented, and set up technical infrastructure and kept it running on a day to day basis. This was an unpaid volunteer position. Integrated several core daemons with the AFS filesystem and Kerberos, especially mail daemon. Helped maintain Domtool, a program written in SML which "compiles" rules from a user-supplied DSL into websites, email aliases, and DNS setup.

RCAC at Purdue University

Position	Assistant Sysadmin
Location	West Lafayette, IN
Duration	Mar. 2006 - Dec. 2007

Worked with various RCAC (the Rosen Center for Advanced Computing) staff members to help carry out a variety of systems tasks. Used cfengine—a Chef predecessor—to manage permissions and packages across 1000's of machines.

Education

Purdue University

Type	Undergraduate
Duration	Aug. 2004 - Dec. 2007
Outcome	B.S. Computer Science, B.S. Mathematics

Other Competencies and Interests

Promises and async control flow
Presenting tech talks, demos, and proposals
Agile/SCRUM, Skateboard/Bicycle/Car
Clean Coding
Improving latency at scale
Advanced test methodology: testdouble.js, yakbak

Load testing with wrk
Monitoring: winston, Splunk, Sumologic
App-level performance metrics: toobusy, memwatch
Devops: Docker, AWS, shell scripts
CDN: Fastly, CloudFlare
Writing documentation
Health, fitness, nutrition

Free Software Projects

https://github.com/mwolson

Node.js

Wrote `jest-webpack-alias`: a tool that aids testing Webpack projects with Jest. Wrote supporting npm modules: `rewrite-files`, `transform-jest-deps`, `unwin`. Contributed PRs to `react-dropzone`, `yakbak`, `jest`, `node-oracle`, `nodemon`, `swank-js`, among others.

Git

Contributed patch for `git-svn` to support excluding troublesome branches and tags by regexp pattern; it is in git v1.7.8. Provided several documentation updates.

Emacs

- λ Emacs: Improved transaction queue code (`lisp/tq.el`)
- λ Maintained Emacs Muse, a text publishing mode for Emacs
- λ Maintained ERC, an IRC client that is part of Emacs, and got it included into Emacs
- λ Maintained EMMS, a music player for Emacs
- λ Contributed to Org Mode, a TODO list manager and life organizer for Emacs

Affiliations

Associate Member of the Free Software Foundation
Vice President of the Purdue Linux Users Group
Member of IEEE Computer Society