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Evan Lucas

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Education

B.S.B.A. Finance from the University of Southern Mississippi (December 2010)

Employment

Help.com - *Chief Technology Officer* - **(Mar 2018 - Mar 2020)**
- Managed multiple engineering teams (both remote and onsite)
- Contributed heavily to both frontend and backend systems (React, Node.js, Golang)
- Designed backend infrastructure on Kubernetes
  - Built operator to make deploying services easier
- Significantly enhanced deployment process with GitLab and Kubernetes
  - Wrote chatbot to promote from staging to production
- Improved delivery process by creating review apps for frontend and backend teams
  - Developers and QA were able to test changes in isolated environments before merging code
- Wrote API gateway in Golang

Help.com - *Principal Architect* - **(Oct 2017 - Mar 2018)**
- Designed backend systems
- Ensured code quality
- Identify and correct low performing services/endpoints

Help.com - *Senior Software Engineer* - **(Nov 2015 - Oct 2017)**
- Built a lot of the building blocks for full system rewrite
- Wrote high performance microservice library
  - Features code generation for validators and data structures
  - Has built in tracing for use with Stackdriver
- Wrote high performance API Gateway for our infrastructure
  - Can handle ~20k req/s on a single cpu

Help.com - *Software Engineer* - **(Jun 2015 - Nov 2015)**
- Contributed to both frontend and backend application development
- Signifcantly improved performance of prototype application
  - Rewrote client communication library to boost performance from 500 messages total before crashing to 100k messages/sec
- Introduced testing strategy for backend microservices

Self Employed / Freelance - *Software Engineer* - **(Mar 2015 - Jun 2015)**
- Focused on contributing to multiple open source projects
  - Main focus was working on Node.js (https://github.com/nodejs/node)
- Maintained multiple node.js applications
  - MongoDB, MariaDB, redis for databases

GAW Miners - *Software Engineer* - **(May 2014 - Mar 2015)**
- Led daily meetings with development and QA teams
- Was responsible for code review
- Deployed builds 3-6 times per week
- DevOps and Server administration (Ubuntu, SmartOS)

Hattiesburg Clinic, PA - *Interface Programmer / Web Developer* - **(Oct 2012 - May 2014)**
- Was responsible for design, implementation, and debugging of interfaces between various applications
- Maintained local Intranet
- Maintained legacy web applications
- Was responsible for all internal web development (PHP, Node.js, MongoDB, MySQL, MS SQL Server)

Curapps - *Principle* - **(Mar 2010 - Mar 2018)**
- Wrote custom iOS applications (Objective-C)
- Wrote web services (PHP, Node.js)
- Database administration (MongoDB, MySQL)
- Server administration (Linux, SmartOS, Mac OS X)

Technical Skills

- **Languages**: JavaScript, Objective-C, HTML, CSS, Swift, Golang, PHP, Tcl
- **Databases**: MongoDB, MySQL, MariaDB, MS SQL Server, Redis, Couchbase, Postgres, Elasticsearch
- **Frameworks**: React.js, Material-UI, Apollo, GraphQL, Redux
- **Shells**: fish, bash
- **Orchestration/tooling**: kubernetes, helm

Projects

- **nano-gateway**: API Gateway with authentication to proxy requests from the outside world to a complex backend system. Includes rate limiting, role based access control, and pluggable session storage. (node.js, couchbase, redis)
- **releaseit**: CLI tool to automate releasing packages and services. Uses commit metadata to determine versioning, bumps, tags, and builds release artifacts. (node.js, docker)
- **build-ast**: Node.js package to make generating source code via AST easier.
- **OnCall**: On Call Schedule Generator that randomly assigns working days for providers based on a set of rules. (node.js, express, socket.io, MongoDB)
- **PatientReps**: Real-time work order management tool that has different priority levels and employee reporting. (node.js, express, socket.io, MS SQL Server)

Open Source

- **Node.js**: Technical Steering Committee Emeritus and former member of the Release team
- **build-ast**: Node.js package to make generating source code via AST easier
- **gcr**: A GitLab CI Runner for node.js (JavaScript)
- **node-launchctl**: Native bindings to launchd for node.js (C++, JavaScript)
- **dam**: Man for markdown in your terminal (JavaScript)
- **nodengine-hl7**: HL7 parser for node.js (JavaScript)
- **learnyoumongo**: MongoDB Nodeschool workshop (JavaScript)
- **fish-kubectl-completions**: fish shell completions for the kubectl CLI tool (Golang, fish)

Links

- **Node.js** (https://github.com/nodejs/node)
- **fish-kubectl-completions** (https://github.com/evanlucas/fish-kubectl-completions)
- **build-ast** (https://github.com/helpdotcom/build-ast)
- **gcr** (https://github.com/evanlucas/gcr)
- **node-launchctl** (https://github.com/evanlucas/node-launchctl)
- **dam** (https://github.com/evanlucas/dam)
- **learnyoumongo** (https://github.com/evanlucas/learnyoumongo)