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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
- Significantly 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) (<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 (Node.js), 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, GatsbyJS
- Shells:** fish, bash
- Orchestration/tooling:** kubernetes, helm, docker

## Projects

- help-app-controller:** Kubernetes operator that automatically creates Services and Deployments/DaemonSets that use best practices for zero downtime deployments. (Golang)
- 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. **Currently a core committer**
- 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>)