

## **Jascha Ephraim**

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<https://github.com/jaschaephraim>

<http://jaschaephraim.com>

### **SUMMARY**

I was most recently contracted as the sole backend/devops engineer for the Gems platform, and have been a developer since 2005. I have professional experience with a variety of frontend, backend, and blockchain technologies, and enjoy adapting quickly to new ones.

My work is informed by multiple aptitudes and life experiences, including musical composition and performance, multimedia production, writing and editing, and Buddhist chaplaincy.

### **PROFICIENCIES**

- **Blockchain:** Solidity, Truffle Framework, MetaMask
- **Backend:** Go, Node.js, Python, PHP, Ruby, SQL, MongoDB, Firebase, Neo4J, Redis
- **Frontend:** JavaScript/ES6, Webpack, React, Redux, CSS3, HTML5
- **Devops:** AWS, Google Cloud, Kubernetes, Docker
- **Scientific applications:** Java, Matlab, R, E-Prime

### **NOTABLE PROJECTS**

- [Gems Ethereum token and microtask platform](#).
- [Emergency Market Mapping and Analysis Tool](#) developed for the International Rescue Committee and USAID. Browser-based, offline graphical mapping tool utilizing ES6, React, Redux, Immutable.js, Cytoscape.js, Webpack.
- [Bayesian decision network modeler and evaluator](#) written in Java, implementing both absolute probability calculation and estimation via Gibbs sampling.
- [Static website generator and development environment written in Node.js](#).
- [LiveReload server for Go](#).
- Article on [Elementary Neural Networks with TensorFlow: Training Perceptrons to Do Boolean Logic](#).

## RELEVANT EMPLOYMENT HISTORY

Dec 2017– Jan 2019	Software Engineer <b>Gems</b> Designed, developed, and deployed Solidity contracts and full-stack web application for the Gems ICO and microtask platform. Involved interactions with the Ethereum blockchain via MetaMask in the browser and dedicated Node.js server instances on the backend. Using Node.js, Go, React/Redux, Google Cloud, Kubernetes, Truffle Framework, Firebase.
Apr 2017– Nov 2017	Software Engineer <b>Gifs.com</b> Full-stack development and devops for browser-based image/video editor, including implementation of server-side video processing. Using Node.js, Go, React/Redux, Google Cloud, Kubernetes.
Jan 2016– Mar 2017	Software Engineer <b>Cargomatic</b> Full-stack development—specializing in backend—of scalable shipping platform, including web and mobile clients, real-time location tracking, billing, operations administration, exception ticketing and resolution. Built using Node.js, Go, React, AWS.
2005–2015	Freelance Web Developer Provided web design and development services, adapting open-source content management systems and creating custom frameworks.
2010–2011	Research Assistant <b>Laboratory of Professor Michael Spivey, Ph.D.</b> <i>University of California, Merced</i> Assisted in design and implementation of behavioral experiments, ran subjects, maintained detailed records. Experiments involved mouse tracking, eye tracking, timed visual search.  Research Programmer <b>Laboratory of Professor Evan Heit, Ph.D.</b> <i>University of California, Merced</i> Programmed experiments according to specifications using Java and E-Prime. Studies addressed judgements involving deduction, induction, and varying reliability of information sources.  Web Developer/Graphic Designer/Proofreader <b>Laboratory of Professor Qinghua Guo, Ph.D.</b> <i>University of California, Merced</i> Designed lab and departmental websites, design and layout of print materials, proofreading of scientific journal submissions. Articles addressed spatial analysis of environmental LIDAR data.

## EDUCATION

- 2012–2015     **University of the West** *Rosemead, CA*  
M.Div., Buddhist Chaplaincy
- 2010–2011     **University of California** *Merced, CA*  
B.S., Cognitive Science  
High Honors, Dean's List, Chancellor's List
- 2009–2010     **City College of San Francisco** *San Francisco, CA*
- 2003–2004     **University of North Carolina** *Asheville, NC*
- 2000–2003     **Warren Wilson College** *Swannanoa, NC*

## VOLUNTEER WORK

- 2018            **Hack the Hood** *Oakland, CA*  
Coached high school- and college-aged students in an introductory Raspberry Pi workshop.
- 2014            **Learning Works** *Los Angeles, CA*  
Tutored high school students.