

# \*Kim Zick

Hi! I am a self-automated individual, with over 23 years of general software development experience, around 14 of which are represented on [GitLab](#) and [GitHub](#). I primarily design and build automation systems that reduce developer workload, and have extensive experience creating web applications, system applications targeting the CLI, and designing frontend UI.

I also really enjoy working with others to build amazing things, wear hats, write code, and chew bubble gum.

Website: <https://zick.kim>

Email: [hi@9k1.us](mailto:hi@9k1.us) or [one just for you](#)

GitHub: <https://github.com/rummik>

Keybase: <https://keybase.io/rummik>

Resume: <https://zick.kim/resume>

Phone: (413) 648-7531

Location: [Pittsburgh, PA 15221](#)

Public Key: [739C F2CB EF82 02E5](#)

## Skills

Languages: Nix, TypeScript (TSX), JavaScript (browsers, Node.js, JSX), shell (Zsh, Bash, Fish), PHP, SQL (MySQL, Postgres), JSON, Twig, Swig, EJS, Savant3, CSS (CSS3, Less, Stylus), Python, Perl, Dart

Markup Languages: Markdown (vanilla, GitHub), YAML, XML, HTML (XHTML, HTML5), JSONML

Source Control: Git, Mercurial

Documentation: JSDoc, Doxygen

Testing & Automation: Terraform, Concourse, GitHub Actions, Travis CI, Circle CI, Gulp, Grunt, Karma, Mocha, Dalek.js, JSHint, Cucumber, Webdriver.io, Playwright

Libraries & Frameworks: React, React Native, Angular, Underscore, Lodash, jQuery, Zepto, Dabble, Socket.io, Bootstrap, Slim, Express.js, Propel, Browserify, VanillaJS, Next.js

HTTP Servers: Nginx (with PHP-FPM), Apache 2

Database Servers: MySQL, Postgres, MongoDB, SQLite

Operating Systems: Linux (Debian, Ubuntu, CentOS, NixOS), macOS

Misc: CloudFlare, Digital Ocean, Docker, Vagrant, Kubernetes, Helm, NPM, Yarn, Composer, Antigen

## Work History

### Senior DevOps Engineer - Carnegie Robotics (September 2019 → August 2020)

Collaborated with multiple teams to assess developer needs and select appropriate tooling for composable development environments that can easily be reused across testing and build infrastructure.

» Tools: Terraform, Concourse, Helm, Docker, Artifactory, Kubernetes, GitHub Actions

### Software Engineer III - AccelaSchool (March 2019 -> August 2019)

Maintained the in-house developed flagship web and mobile apps, and updated tooling to streamline and generally improve development experience.

» Tools: GitHub Actions, React Native (Android, iOS), Fastly, Node.js

### Software Engineer, Development Lead - Clarabyte (February 2016 → June 2018)

Lead a team of engineers through the process of developing new data security tools and asset management solutions for refurbishers. This was a continuation of the work I was doing at e360 Technologies.

» Tools: Node.js, Electron, Angular, Circle CI, Mocha, HTML, CSS, CloudFlare, Linux (Ubuntu, NixOS), SQLite, Webdriver

### Lead Technician - e360 Technologies (March 2015 → February 2016)

Developed new inventory management systems and hardware refurbishment/testing methods to streamline the refurbishment, recycling, and resale processes, which were eventually used in the development of commercial products at Clarabyte.

» Tools: HTML, CSS, PHP, Twig, Underscore, Zepto, CloudFlare, Node.js, Mocha, Express, Linux (Ubuntu)

### Software Engineer - UPMC TDC (May 2014 → November 2014)

Worked with a team of engineers to build a unique experience for medical professionals to navigate patient information.

» Tools: Git, Cucumber, Angular, Gulp, Node.js, HTML, CSS

### Contributor - Gratipay (January 2013 → January 2015)

Primarily maintained and contributed to the JavaScript portions of the Gratipay codebase, including the grtp.co widgets, and JavaScript testing and build system.

» Tools: Git, Nginx, Underscore, Zepto, JSONML, Dalek.js, Travis CI, Webdriver

### Open-Sourceress - Chameleoid (January 2009 → Present)

My general umbrella for my various open-source developments. Currently focusing on developing open-source software and hardware that helps folks with disabilities, as well as continuing development on a unique password management solution (see Telepathy).

» Tools: Various (Git, Mercurial, CI services, testing frameworks, PHP frameworks, and JS frameworks, templating engines, database servers, Linux)

## Work Samples

Much of my recent work is available on [GitLab](#), and mirrored on [GitHub](#). What isn't listed here can be found on [my GitLab profile](#) by viewing [my public repositories](#).

### Shellcast - Easy TTY broadcasting

Shellcast broadcasts a terminal to a public (or private) URL, usually on tty.tv. The idea was to have something similar to twitch.tv, but for programmers, MUD/Mush games, and anything that runs on the CLI.

- » Tools: Node.js, HTML5, CSS3, Express, Underscore, Socket.io, Swig, PTY.js, Term.js
- » <https://gitlab.com/chameleoid/tty.tv/shellcast>

### Telepathy - A telepathic password manager

I wanted a password manager that didn't store any information on a server, but still had the ability to retrieve the right password from any device.

Telepathy solves this by using a user-supplied generation seed, username, and domain name, then hashing (default is SHA256) and base converting the result.

It's also built with a responsive layout, and mobile webapp support. (It includes an icon used when being added to an Android/iOS homescreen, and looks pretty on small screens 😊)

- » Tools: Node.js, jQuery, Grunt, JSHint, Karma, Mocha, Swig, Stylus, HTML5, CSS3
- » <https://gitlab.com/chameleoid/sykey/telepathy>

### 9k1.us

My personal, private, paste/file bin, and URL shortener. It also provides LMGTFY-like search functionality and a simple API for determining your public IP.

- » Tools: JavaScript (search), Typescript, Nest.js, Yarn, Node.js
- » <https://gitlab.com/iotasamurai/9k1.us>