www.hellojake.com
www.github.com/jakefrancis

# Jake Francis

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402-821-7146

## Employment

**Web Developer**　　　　　　　**Arcade Apps LLC**　　　　　　　**2021-Present**
- Maintain, and add features to the frontend, firebase cloud layer, and NodeJS code running on servers, and Raspberry Pi's for clawcrazy.com that allows users to play arcade claw machines through a web browser.
- Adapted to an environment using VueJS and Firebase and quickly began writing impactful features efficiently and effectively.
- Designed, and implemented custom digital control schemes for off the shelf arcade, ticket, and prize machines. -VueJS, Vuex, Vue Router, CSS, NodeJS, Firebase, Linux.

**Teaching Assistant**　　　　**MSU - Fullstack Bootcamp - Part Time**　　　　**2021-Present**
- Assisted in teaching a 6 month, part-time, fullstack web development bootcamp.
- Taught multiple programming concepts within the Javascript web development ecosystem.
- Met with students weekly during office hours in small groups and 1:1 to mentor and cultivate a deeper understanding of concepts being taught in the bootcamp. -HTML, CSS, Javascript, MySQL, MongoDB, Express, React.

**Senior Chemistry Technician**　　　　**Cook Nuclear Station / AEP**　　　　**2016-2021**
- Performed 24/7 shift coverage as the Lead Technician responsible for monitoring and maintaining the chemistry of Cook's two units that supply energy to power more than 1.5 million homes.
- Achieved excellent understanding of complex plant systems, their interaction, and their potential effect on overall plant chemistry.
- Developed a frontend web paging alarm system to alert chemistry technicians of off-normal legally required samples. - HTML CSS Javascript

## Technologies and Languages

- Javascript, HTML, CSS, NodeJS, VueJS, React, Axios, Express, Firebase, MongoDB, Cypress, Jest
- Linux CLI, Bash, Git, Github, NPM, Adobe Photoshop and Lightroom

## Personal Programming Projects

- **Blog Cabin -** Fullstack blog aggregation website. User creation and authentication has been implemented via password hashing and JSON web tokens. Users can 'root' for posts they find interesting. - React, SASS, Express, Node JS, MongoDB, Jest
- **Tetris -** Fully responsive javascript implementation of the classic falling block game. Touch controls are implemented for mobile users. The game mechanics were recreated from existing games, and the rules found on tetris wikis. - Javascript, HTML, CSS
- **NASA-APOD -** A infinitely scrolling React website that displays the NASA API astronomy picture of the day, from the current date backwards. The backend serves as a proxy server to keep the NASA API key secret. New requests to NASA are cached into a MongoDB before being sent back to the frontend.  - React, Express, MongoDB, NodeJS

## Education

**Crete, Nebraska**　　　　**Doane University -** *B.S. Chemistry*　　　　**2007-2012**
- Publication: Sulfonated Ni(II)porphyrin improves the detection of Z-DNA in condensed and non-condensed BZB DNA sequences