

James Gullickson

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Summary

Adaptable full-stack developer with a background in neuroimaging research. Experience working in a highly-regulated environment while developing applications for data collection, analysis, and lab management. Passionate about creating intuitive tools that improve processes and bring value to users.

Experience

Software Developer

University of Minnesota - Laboratory for NeuroPsychiatric Imaging (LNPI)
APR 2020 - Present

- Refactored key elements of our core MVC application into a modernized single page application which interfaces with our REST API.
- Designed and implemented a build and distribution process for our Python Bluetooth local server that communicates with our stimulation hardware.
- Created a continuous delivery process for our cognitive training Electron application that handles deployment to client machines in the field.
- Implemented Zoom chat and video integration for our remote cognitive training and tDCS platform.
- Implemented OAuth login flow for Zoom API authentication.

Software Developer / Study Coordinator

University of Minnesota - Laboratory for NeuroPsychiatric Imaging (LNPI)
OCT 2018 - APR 2020

- Implemented custom library of web-based gamified cognitive training tasks for NIMH-funded clinical trial.
- Debugged complex front-end issues relating to the project's custom-developed task-delivery platform.
- Designed / implemented UI's for internal lab tools including a cognitive training administrator panel and a calendar scheduling interface.
- Organized and facilitated meetings between the development team and principal investigators to gather software requirements and to delegate development workloads.

Research Technician

University of Minnesota / Minneapolis VA Medical Center
JAN 2017 - OCT 2018

- Designed custom structural and functional MRI processing pipelines.
- Interfaced with SQL database to organize data for analyses.
- Presented lab research output at national conferences.
- Operated 3T MRI scans for multiple research studies.

Lab Manager

Wesley and Lorene Artz Cognitive Neuroscience Research Center
JAN 2016 - JAN 2017

Skills

JavaScript (+ES6) | React | Redux | Vue | Typescript
Python | Flask | PyInstaller
CSS3 | Sass | Bootstrap | Bulma | HTML5 | D3
Git | Github | Visual Studio Code
Gulp | Webpack | Babel | Mocha | Chai
Bash | JSON | SQL | MongoDB | Mongoose
Node.js | npm | Express | Electron

Selected Software Projects

- Zoom API integration for Electron application
- Continuous delivery for Bluetooth server and cognitive training Electron application
- User interfaces for internal lab applications
- Gamified web-based cognitive training tasks

Education

BA, Psychology

Hamline University - JAN 2017 | GPA 4.0

Languages

English | Spanish

Certifications

3T Magnet Operator (Siemens MAGNETOM Prisma)
Center for Magnetic Resonance Research
FEB 2017 - Present

Links



Github:
github.com/jgullickson



LinkedIn:
[linkedin.com/in/james-gullickson-35166252](https://www.linkedin.com/in/james-gullickson-35166252)



Google Scholar:
<https://tinyurl.com/socwga4>