

Mickey Smith

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Experience

Software Developer

Digital Primates

February 2020 - Present

- Completed rigorous 6 month training on JS fundamentals, React, and developer-client communication
- Engage in daily C-suite level client-facing meetings to report ticket progress and receive organizational updates
- Maintain an enterprise-scale codebase built with React, Redux, and RxJS using git with intense code review
- Work with QA to complete Agile sprints and coordinate client backend efforts with multi-repo frontend

Research Assistant

Shirley Ryan Abilitylab

May 2019 - January 2020

- Created AWS IoT sensor systems to monitor in-field device diagnostics (EC2, API Gateway, Lambda Functions)
- Designed hardware and software architecture for system to reduce pressure ulcer incidence throughout hospital
- Created a neural network (high accuracy ResNet) to determine patient orientation within pressure-monitoring bed

Engineering Co-Op

Kaleidoscope Innovations, Inc.

May 2018 - Aug 2018

- Improved Leap Motion robotic hand program from $O(n^2)$ to $O(n)$ time complexity resulting in project continuation
- Led end-to-end revival of robotic arm project resulting in internal Python Flask web application and CLI
- Architected Robot Operating System environment-sensing feature to allow use in variable settings within office

Research Assistant

Purdue Linnes Lab

May 2017 - Aug 2017

- Collaborated on *Device for Selective Collection and Condensation of Exhaled Breath* (Application No. 62/693,001)
- Designed device housing to include algorithmically-operated controls system resulting in device actuation
- Programmed Arduino-driven device with CO₂/temperature sensors to reliably collect deep-lung exhaled breath

Engineering Co-Op

Cook Research, Inc.

Aug 2015 - Aug 2016

- Performed Tukey Test statistical analysis on experimental results gathered during GLP-driven bench tests
- Built MATLAB automation tools to more rapidly analyze multiple files at a time, improving Excel-based system

Projects & Highlights

[Dinogram](#) *Timeline web app for articles created with Mailchimp newsletter using React, AWS Amplify and Mailchimp API*

[Atalantia Games](#) *LAMP stack web application to gather and store user Leap Motion data from Unity3D project*

[Purdue Human Trafficking Hackathon](#) *Designed PyTorch facial recognition program for 24-hour hackathon*

[Senior Design - Technical University of Denmark](#) *Photoplethysmography signal acquisition and processing suite*

Education

Purdue University Class of 2019

BS Biomedical Engineering

Minor: Electrical/Computer Engineering

Commendations

EPICS Leadership Award 2017

EPICS Presentation Award 2015

2nd Place - Purdue Human Trafficking Hackathon