

# S Y D N E Y B A R O V S K Y

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## W O R K E X P E R I E N C E

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### SCAFFIDI'S HIDEOUT

07/2018 - 11/2019

#### BARTENDER

(MILWAUKEE, WI)

*Neighborhood "dive bar" which also hosts a competitive pool league twice a year.*

- Responsible for opening and operating the bar, unassisted, multiple days per week.
- Introduced 10+ new drinks to the "hidden" menu.
- Leveraged interpersonal skills while providing quality service.

### TRAVEL/BACKPACKING

02/2018 - 05/2018

*Self-guided, solo travel by means of backpacking around the world to countries in South East Asia (Thailand; Vietnam) and Schengen (Spain; Portugal; Italy; Croatia; Slovenia; Serbia; Hungary; Czechia; Denmark; Netherlands; Ireland; Iceland).*

- Cultivated language/communication skills (non)verbally to overcome cultural and language barriers with people in 14+ different countries around the world.
- Adapted to new, often unanticipated, situations with traveling alone.

### IPIC THEATERS: GOLD CLASS CINEMAS

09/2017 - 02/2018

#### GUEST SERVICES

(GLENDALE, WI)

*Upscale cinema that specializes in the full, high-class, night out experience.*

- Managed the front desk; assisted up to 500+ customers in-house and over the phone, daily.
- Trained five (5) new Guest Services employee.
- Resolved customer service issues and complaints, involving managers as deemed necessary.

### FOOD & DRUG ADMINISTRATION

05/2015 - 08/2017

#### TEST DEVELOPMENT/RESEARCH ENGINEER

(WHITE OAK, MD)

*Federal agency, of the US Department of Health and Human Services, which serves to promote and protect public health. The Human-Device Interaction group studies interactions between humans and existing/emerging medical devices/technologies with the goal of improving therapeutic, diagnostic, and rehabilitative outcomes.*

- Developed 2 testing protocols, utilizing different quantitative data collection systems:
  1. Modified and combined existing testing protocols/systems – Box and Blocks; Jebsen-Taylor Hand Function Test – to assess the dexterity of movements associated with tasks which simulate daily life given different levels of impairment or device.
    - Collected quantifiable data using Kistler Force Plates and VICON Motion Capture Software.
  2. Designed new test delivery method – continuous Box and Blocks using a "lazy susan" – to assess the cognitive load (mental effort) associated with completing tasks of varying difficulty.
    - Collected quantifiable data using electroencephalography (EEG).
- Organized data collection and documentation protocols.
- Maintained updated physical and electronic data libraries.
- Supported preliminary testing for 10+ subjects through: patient recruitment, equipment calibration and setup, data collection, documentation, data processing and analysis.
- Facilitated lab tours and other presentations/publications;

### TECH4POD | MARQUETTE UNIVERSITY

01/2015 - 05/2015

#### RESEARCH ASSISTANT

(MILWAUKEE, WI)

*Research group dedicated to developing new tools and technologies that would improve the quality of life for children with orthopaedic conditions.*

- Utilized Autoscooper software to extract data from X-Ray Fluoroscopy images of the hindfoot during gait.
  - 25+ trials with 100+ images/trial.

# P O R T F O L I O

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## RIGHT DOSE

Saving patients; helping paramedics. Provides a flexible, robust and customisable framework for any pre-hospital service by which active intervention and dosage information is readily updated and deployed to employees for easy reference while on-the-job

- Framework: Ruby-on-Rails
- Utilized: Bootstrap, Algolia, Date-FNS, jQuery, Sortable, SweetAlert, Cloudinary, Faker, Pundit, Devise
- Collaborated using git/GitHub to develop the front- and back-end of the Paramedic-side of the application.

<https://right-dose.herokuapp.com/>

## THE MILE HIGH CLUB

Mock, AirBNB-style, marketplace for aircraft rentals.

- Framework: Ruby-on-Rails
- Utilized: Bootstrap, FlatPickr, jQuery, Mapbox, Cloudinary, Faker, Pundit, Devise.
- Collaborated using git/GitHub to develop the front- and back-end of the application.

<https://the-milehigh-club.herokuapp.com/>

## MISTER COCKTAIL: SOUP OF THE DAY

Recipe-book for Cocktails.

- Framework: Ruby-on-Rails
- Designed and developed basic MVC application with CRUD capabilities for a "Cocktail Recipe Book".

<https://sydneybroccoli-mister-cocktail.herokuapp.com/>

## LOW-COST PATIENT AND HEALTHCARE RECORD SYSTEM

Developing a joint hardware-software solution for deploying Electronic Healthcare Record-keeping systems for public health groups in developing nations around the world.

- Researched existing solutions; evaluated feasibility of commercial programs to be used at low-cost.
- Integrated Raspberry Pi hardware as a base for the online system, which acted as a temporary server

# A C H I E V E M E N T S

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Kontson, K.L., Wang, S., Barovsky, S., Bloomer, C., Wozniczka, L., Civillico, E.F. (March 2019). **Assessing kinematic variability during performance of Jebsen-Taylor Hand Function Test** *Journal of Hand Therapy*.  
[doi: 10.1016/j.jht.2018.10.002](https://doi.org/10.1016/j.jht.2018.10.002)

# E D U C A T I O N

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## COMPUTER PROGRAMMING: Full Stack Web Developer

2020

LE WAGON: CODING BOOTCAMP (BALI, INDONESIA)

- 9-week intensive coding bootcamp learning HTML, CSS, Bootstrap, JavaScript, ES2015, SQL, git, GitHub, Heroku, and Ruby-on-Rails.
- Designed, implemented and shipped to production various personal and collaborative projects using Ruby-on-Rails and Heroku.

## BACHELOR OF SCIENCE: Biomedical Engineering

2017

MARQUETTE UNIVERSITY (MILWAUKEE, WI)

- FOCUS: Biomedical/Electrical Engineering
- ORGANIZATIONS: MU Women's Club Lacrosse; Alpha Chi Omega Women's Fraternity

# O R G A N I Z A T I O N S

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2013 - 2017

Member

MARQUETTE WOMEN'S CLUB LACROSSE

2014 - 2017

Member

ALPHA CHI OMEGA WOMEN'S FRATERNITY

2014 - 2017

*Volunteer*

**HUNGER CLEAN-UP**

2010 - 2013

*Volunteer*

**SPECIAL OLYMPICS OF WASHINGTON**

2013

*Volunteer*

**OUTDOORS FOR ALL**

## **S K I L L S**

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**FRONT-END** HTML5 CSS/SASS JavaScript (React.js) Bootstrap/Material Design

**BACK-END** JavaScript (Node.js) SQL (SQLite; PostgreSQL) Ruby Rails C++

**TOOLS** GitHub git npm/yarn Sublime Text Cloudinary Mapbox Trello Figma Whimsical  
MS Visio

**OTHER** MS Office Labview Raspberry Pi PSoC Multisim Matlab Autoscooper VICON  
Electronic Body Signals Circuitry (Analog; Digital)