

MIKE BUSS

My overall objective is to design and develop novel software to help improve lives. I am a proven technical leader with a strong background in software development.

EXPERIENCE

2017-present

Qr8 Health • Principal Mobile Engineer

Designed and developed features to support ongoing deployments of the Multiple Sclerosis Performance Test (MSPT), an application for monitoring patients with MS.

- ★ Developed features to allow the MSPT application to objectively quantify major motor, visual, and cognitive symptoms for patients. These measures help caregivers make better informed decisions and improve patient outcomes.
- ★ Developed integrations with the electronic medical record (EMR). This enabled data tracking over time to better facilitate treatment or behavioral interventions.
- ★ Facilitated the deployment of MSPT on every continent and in 8 different languages.

2012-2021

Cleveland Clinic • Lead Software Developer

Lead development of dozens of software initiatives, including apps to manage multiple sclerosis (MS), Parkinson's, chronic obstructive pulmonary disease (COPD), and more. These apps collect functional measurements and patient-entered data designed to improve clinical outcomes.

- ★ Featured on the front page of Apple.com as part of their "Your Verse" campaign for developing the Cleveland Clinic Concussion app. This app has since collected assessments on hundreds of thousands of athletes.
- ★ Developed the Ventilator Mode Map (VMM) app, which helped first responders find the correct ventilators during the COVID-19 crisis.
- ★ Developed the Dual-Task Augmented Reality Treatment (DART), a system for collecting hand-tracking and movement data using HoloLens 2 and iPad. I developed the first HoloLens prototype and the production-ready iPad app.

2016-present

Aeso • Founder

Founded software development firm.

- ★ Developed BuildMonkey, a Ruby on Rails application that helps teams manage build artifacts for mobile app deploys.
- ★ Developed Field Facts: Baseball, an iOS application that helps users find information on local baseball fields.

2016-2019

NeuroLogix Technologies • Principal Mobile Engineer

Designed and developed features for concussion management software. This application has 300,000 lives under management and has administered over 500,000 assessments.

PORTFOLIO

A portfolio of my work can be found at mikebuss.com/work

SKILLS

Programming Languages

Swift, Objective-C, Ruby, JavaScript, C#, C, C++, HTML5, CSS3, Go

Frameworks & Libraries

Ruby on Rails, React, React Native, jQuery

Services

AWS [EC2, Lambda, S3, Glacier, Route53, CloudFront, CodePipeline, CodeCommit, CodeDeploy, IAM], GCP [Firebase, Firestore, Cloud Storage], Jenkins, Bitrise

Design

Wireframes, hi-fi mockups, prototyping, style guides

EDUCATION

Bowling Green State University

B.S. Computer Science 2012

PUBLICATIONS

My software played a key role in the following publications:

Objective Assessment Of Postural Stability in Parkinson's Disease Using Mobile Technology

Sarah Ozinga & Andre Machado & Mandy Miller Koop & Anson Rosenfeldt & Jay Alberts

Use Of Mobile Device Accelerometry To Enhance Evaluation Of Postural Instability in Parkinson Disease

Sarah Ozinga & Susan Linder & Jay Alberts

A Technology-enabled Electronic Incident Report To Document and Facilitate Management Of Sport Concussion: A Cohort Study Of Youth and Young Adults

Susan Linder & Jason Cruickshank & Nicole Zimmerman & Richard Figler & Jay Alberts