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JON BIDWELL

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### Required Skills:

Mobile App Development, Web App Development, Java Coding, Python Coding, iOS Coding, Android Coding, Responsive Web Design, Human Centered Design, Open Source Databases (MySQL, MariaDB, etc), Project Management, Technical Writing, Communications.

### Preferred Team Communications:

TBD.

### Data Sources:

Mobile phone survey data

### Other Items:

Project has timezone flexibility. Mentors and students will determine a good time for virtual meeting

Bonus - Help us to develop better epilepsy mobiles tools and receive nice recommendation letters from faculty and clinicians for your hard work!

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## MOBILE FAMILY-BASED EPILEPSY SELF-REPORTING TOOL STUDY

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Mobile and wearable technologies offer new opportunities for supporting epilepsy self-management.

The purpose of the study is to investigate new mobile and health tracking tools for documenting seizures and other health data between appointments, enabling patient outreach and increasing patient skills in preparation for adult self-care.

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### PROJECT OBJECTIVES

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The study will involve 45 families in the greater Atlanta area who will be asked to report patient health data for 30 days. Mobile phone surveys will be administered daily for documenting medication intake, sleep, exercise and stress for all families. Health tracking devices, context sensitive reminders and daily financial incentives will be administered to a subset of families for comparison. In addition, a nurse practitioner will be reviewing the reported data once per week and will have the opportunity to provide optional feedback.

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### SUCCESSFUL PROJECT

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Here are some ideas for making a real-world impact with your skills from CS 6440! Pick one!

- Build and deploy a clinician facing tool for patient outreach!
  - Build a collaborative health tracking dashboard for patients and caregivers.
  - Enable families and clinicians to negotiate health goals for daily financial incentives.
  - Evaluate and predict the best time and place for survey reminders given smartphone location and proximity to caregivers and basic machine learning.
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**Intellectual Property: Students will own the IP from this project.**

