PIERCE STEGMAN
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EDUCATION

University of Alabama, Tuscaloosa, AL   August 2016 – Present
- Candidate for B.S. in Computer Science, GPA: 4.00

SKILLS

Programming Languages: JavaScript, Java, Python, HTML, C/C++, PHP
Frameworks & Libraries: Node.JS, AWS, Android, Handlebars, Qt, Unity

WORK

Human-Technology Interaction Lab   August 2017 – Present
University of Alabama, Tuscaloosa, AL
- Conducting EEG based brain-computer interface research for brain-computer interaction
- Research in signal processing, machine learning, and BCI implementation

Laboratory for Immersive Communication   May 2017 – August 2017
University of Alabama, Tuscaloosa, AL
- Researched signal processing techniques for high efficiency 360-degree video encoding

Nolij Consulting   April 2015 – Present
Vienna, VA
- Created and maintains current website
- Performs hardware and software repairs on computers

PROJECTS

WebBCI
- JavaScript-based signal processing and machine learning framework for brain-computer interfaces
- Allows brain-computer interaction in a fully web environment

MyoThreeArm
- Developed a wave categorization algorithm to interpret muscle movements from an EMG
- Categorized unique gestures ranging from a closed fist to letters in sign language

TOS-AI
- AI which converts long legal documents into shorter bulleted summaries
- Allows for quick review of a service's Terms and Conditions

Subtoshi
- Cryptocurrency exchange with greater precision in price values than other exchanges
- Processed thousands of dollars in transactions

Spacebowl
- Virtual reality bowling game built using EMG muscle readings to provide user control
- Detects user's arm and hand position to immerse user in game

Dashcoin Wallet GUI
- A Qt based cryptocurrency wallet designed for the cryptocurrency Dashcoin
- Used by over 7,000 people

SoundAir
- Virtual piano built using infrared detection of a user's hand position
- Allows user to place 3"x5" index cards on a table and play them as piano keys