

EDUCATION

WAYNE STATE UNIVERSITY *Detroit, MI / May 2016 – Present*

- Bachelor of Science in Computer Science
- Bachelor of Arts in Linguistics
 - Concurrent minor in Asian Studies: Mandarin Chinese

SKILLS

LANGUAGES C/C++, Haskell, Python, HTML/5, CSS/3, JavaScript, LaTeX, Common Lisp, Bash

OPERATING SYSTEMS GNU/Linux, Windows OS, macOS

SOFTWARE Git, Unix shell, Command Prompt, Powershell, AWS, Microsoft Office 365/Office Suite, Microsoft Deployment Toolkit

INTERESTS Algorithm Design, Operating Systems, Machine Learning (e.g. Natural Language Processing), Cryptology, Embedded Systems

PROJECT EXPERIENCE

MHacks 8 *Detroit, MI / Oct 2016*

GM Remote Dev Tools

My team and I created a way to remotely control and manipulate the display inside of a GM vehicle. We used a custom Wayland SDK (already present in the system), Bash, and C to dump and send display screen data. We then used JavaScript, HTML, and CSS to display the screen data and make it interactive on a web page. The initial goal was to create a remote way to develop for the UI and manage the system and provide a toolkit to developers thereafter. We did not win any major prizes but our team did help debug their framework for building and porting developer apps to the embedded system. It was not compiling on GNU/Linux and our team fixed the issue.

DHack *Detroit, MI / Jun 2018*

Keepup

My team and I designed and built an application that could notify a user of potential “bad” stress or triggers using data collected via a Fitbit. First was an app written for the Fitbit that collected data and sent it to an AWS that we had set up using their lambda function technology. Second was an app designed for a mobile phone. The third and most important part was implementing the formulas designed to calculate different statistics so that we could relay this information to the user. We used JavaScript, Java, JSON, and the React Native framework. You can find more information and sources at <https://github.com/hamzaowais/keepup>. Our hard work and determination won us 2nd prize overall and 1st prize for the Fitbit challenge.