# Hamza Ehsan

hamza-ehsan@outlook.com
hamzaehsan.com
github.com/hamzaehsan97
linkedin.com/hamza-ehsan
(920)636-9355
Chicago, IL

## WORK EXPERIENCE

### WEIDERT GROUP | Full-Stack Engineer
Oct 2020 - Present | Remote, Chicago

- Integrated set of new API endpoints related to client-critical progressive web applications using React, NodeJS and Redux.
- Porting current swift based IOS applications to Flutter using the GetX framework.
- Relieving technical debt by upgrading legacy code to reactive flutter for API integrations.
- Created a custom CSS3 optimization tool reducing app bundle sizes by 20%.
- Profiling, troubleshooting and updating legacy code to tune and system performance and decrease average response times.

### TITLETOWN TECH (MICROSOFT) | Software Engineer Intern
June 2019 - Sep 2019 | Green Bay, WI

- Implemented third-party services and external API's to student-facing portal reducing code duplicity by 35% using JavaScript, Redux and Zeplin.

### LAWRENCE UNIVERSITY | Software Engineer Intern
June 2018 - June 2020 | Appleton, WI

- Built and integrated a CTC Voice Recognition module for a VR language learning software using Python.
- Helped create a machine-learning algorithm to classify potentially successful start-ups using Python and Pitchbooks.

### QOLOS | Software Engineer Intern
February 2019 - June 2019 | Green Bay, WI

- Co-engineered a cross-platform car wash subscription service app using Flutter and conducted testing using Selenium.

## SELECTED PROJECTS

### DroneSeek | Autonomous Facial Recognition Drone
- Built an autonomous facial recognition drone which relies on computer vision to navigate indoors and center video feed on assigned faces. The project was built using a Tello drone, OpenCV, Pandas, pygame and Flask.

### Texties | SMS note taking solution
- Engineered a full stack SMS based note taking app using Twilio, Flask, Next.js, Netlify and Heroku.

## Education

**Lawrence University**
**Computer Science** & Philosophy
Aug 2016 - Nov 2020 | Appleton, WI

## SKILLS

**Languages**
Python • JavaScript • Dart
SQL • Shell • C# • R

**Frameworks**
React • Git • Flutter • Firebase
AWS(ECS, RDS) • Flask • NodeJS

**Project Management**
Agile • Kanban • Presentation
JIRA • Trello

**Soft Skills**
Leadership • Problem Solving
Critical Thinking • Organization
Data Analysis

## AWARDS

**MakeHarvard- winner**
Harvard University (2019)

**DifferenceMaker - Runner up**
U. of Massachusetts (2019)

**The Pitch - Winner**
UW – Green Bay (2019)

**LuLaunch - Winner**
Lawrence University (2018)

**MadHacks - Runner up**
UW – Madison (2018)

## Coursework

**Computer Science**
Systems programming • Data
Structures • Algorithm Analysis
Theory of Computation •
Computer Graphics

**Data Science**
Data Scientific Programming •
Machine Learning • Neural
Networks • Data Visualization