

# Hamza Ehsan

[hamza-ehsan@outlook.com](mailto:hamza-ehsan@outlook.com)  
[hamzaehsan.com](https://hamzaehsan.com)  
[github.com/hamzaehsan97](https://github.com/hamzaehsan97)  
[linkedin.com/hamza-ehsan](https://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.
- Created a custom CSS3 optimization tool API which reduces app bundle sizes by 20% . Built using python and flask.
- Profiling, troubleshooting and updating legacy code to tune system performance and decrease average response times.
- Created scripts that automate resource analytics pipelines for client facing teams.

### TITLETOWN TECH (MICROSOFT) | Software Engineer Intern

June 2019 - Sep 2019 | Green Bay, WI

- Owned and operated 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.

### LAWRENCE UNIVERSITY | Software Engineer Intern

June 2018 - June 2020 | Appleton, WI

- Implemented third-party services and external APIs to student-facing portal reducing code duplicity by 35% using JavaScript, Redux, and Zeplin.
- Conducted a large-scale upgrade of the university's web portal from Drupal 7 to Drupal 8 including custom module development for seamless integration.

### 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.
- Led backend development of new payment features, including PSP integration and PSI compliance.

## SELECTED PROJECTS

### DroneSeek | Autonomous Facial Recognition Drone

- Built an autonomous facial recognition drone that 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

Machine Learning • Neural  
Networks • Data Visualization  
Data Scientific Programming