

# Jibran Khalil

<https://jibrankhalil.com/> • 469-403-9218 • [jibrankhalil@utexas.edu](mailto:jibrankhalil@utexas.edu)

## EDUCATION

The University of Texas at Austin – B.S., Computer Science, GPA – 3.967 / 4.0

August 2019 – May 2022

Relevant Coursework: Data Structures, Computer Architecture, Competitive Programming, Longhorn Startup Seminar

## EXPERIENCE

Home Depot – Software Engineering Intern

June 2020 – Current

- Developed new register flow for flagged pro-members' job name selection
- Created new React frontend for job-selection in self-checkout, worked with design team to ensure consistent UI
- Utilized web sockets, NGINX, Redux, and Java Spring to synchronize underlying register data and customer self-checkout

## PROJECTS

[TalentFilter.io](#) – Team Developer

May 2020 - Current

Talent directory with extensive filtering to connect recruiters with people laid off by COVID-19

- MongoDB, Node.js, Firebase, JavaScript, and HTML
- Filters for school, former job, location, and category, allowing recruiters to bookmark relevant profiles

[GoalGroup](#) – Sole Developer / Creator

March 2020 - Current

iOS app allowing users to join groups with similar goals to stay motivated and accountable

- MongoDB, Node.JS, Socket.IO, and Heroku backend, Swift frontend
- Utilizes web sockets for real time communication, allows users to add goals, check in, and message people in group

[Human / Robot Interaction Research](#) – Team Researcher / Developer

April 2020

[Research paper](#) on impact of different synthetic voices on person's risk-taking ability

- Developed story website to determine risk users would take with different gender robotic voice narrators
- Analyzed data to determine female robotic voice narrators induced riskier behavior in users

[Paragon](#) – Team Developer

February 2020

Slack bot to detect microaggressions using machine learning, ranks aggressive messages by categories on frontend website

- React Native, MongoDB, Node.js / Express
- Responsible for developing MongoDB / Node backend, creating REST API, and helping train ML model
- Integrated backend with NLP model, Python bot, and website, creating a system-flow to process new messages

[Until Next Week](#) – Sole Developer / Creator

December 2019 – Current

iOS App to read new, weekly stories (written by Jibran)

- Swift, parses JSON text from website into sentences

[Stutterless](#) – Team Developer

November 2019

Machine learning application that recognizes stuttering within speech and provides real-time visual feedback

- Responsible for developing iOS application, collecting data, and developing CoreML model
- Calculates which durations of speech contain significant stuttering, displays improvement over time

[Scan to Sheets](#) – Sole Developer / Creator

August 2018 – Current

iOS App to take attendance and manage inventory by uploading scanned barcodes / QR codes into specified Google Sheet

- Swift, Google Sheets API
- Downloaded in 60+ countries and 5000+ times, adapted by teachers, organizations, and companies
- Used by multiple schools in the Lewisville School District to check-out Apple Pencils to students
- Addresses the inefficiency with existing inventory and attendance systems in organizations

[Peeko](#) – Sole Developer / Creator

December 2017 – July 2019

Anonymous social networking iOS app focused on authentic conversations with friends about topics on users' minds

- Swift, Node.js, Firebase, Google Cloud Storage / Functions
- Backend: Photo storage, notification system, encryption, reporting, enabled with cloud functions / storage
- Frontend: Contact importation, photo / conversation caching, camera functionality, extensive user interface
- Developed algorithm to determine peeks required per topic, decreased data consumption and latency

## LANGUAGES AND SKILLS

Proficient: Java, Swift, Firebase, Git | Experience: C, Node.js, MongoDB, Google Cloud Storage / Functions, Socket.IO

## ACCOMPLISHMENTS AND AWARDS

Mu Alpha Theta, Science National Honor Society – President

August 2017 – May 2019

- Implemented Scan to Sheets attendance system for combined 700 members, decreased sign-in times by 80%

Ford Driving Dreams Scholar

January 2019

- Selected for exemplary leadership and future goals

National Merit Finalist

March 2019

- Chosen for PSAT score among top 0.5% of students in Texas