Jibran Khalil

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EDUCATION

The University of Texas at Austin – *B.S., Computer Science,* **GPA** – 3.97 / 4.0   *August 2019 – May 2022*
Relevant Coursework: Data Structures, Computer Architecture, Statistics, Longhorn Startup Seminar

EXPERIENCE

Home Depot – *Software Engineering Intern*   *June 2020 – August 2020*
Developed self-checkout flow for dropdown data entry
- Created React interface for job name selection and keyboard entry
- Utilized web sockets, NGINX, Redux, and Java Spring for register and self-checkout communication
- Deployed to 50,000+ registers in 2,000+ stores

UT Austin HRI Research – *Researcher*   *April 2020*
Research paper on impact of different synthetic voices on person's risk-taking ability
- Developed JavaScript website to determine risk users would take with narrators
- Analyzed 100+ data points to determine female robotic narrators induced riskier behavior

PROJECTS

GoalGroup – *iOS / Backend Development*   *March 2020 - Current*
iOS app for users to join groups with similar goals to stay motivated
- Implemented web socket communication with Socket.IO for real-time in app messaging
- Designed MongoDB Atlas cluster to store user data and send notifications

Stutterless – *Machine Learning / iOS Development*   *November 2019*
iOS app that recognizes stuttering and provides real-time visual feedback
- Developed a CoreML model to recognize stuttering in real-time
- Calculated daily improvement and presented visual cues with Swift

Scan to Sheets – *iOS Development*   *August 2018 – Current*
Inventory management app that uploads barcodes / QR data into Google Sheets
- Integrated Google Sheets API with iOS app to develop inventory management system
- Downloaded 5000+ times by teachers and companies in 60+ countries

Peeko – *iOS / Backend Development*   *December 2017 – July 2019*
Anonymous social network focused on authentic conversations with friends
- Implemented Firebase database for real-time messaging, posts, reporting, and friend system
- Utilized GCP to implement photo storage, identity encryption, reporting, and notification features
- Denormalized data and utilized GCP to decrease data latency and consumption
- Developed an algorithmic system to determine threshold for removing a topic's anonymity

ACCOMPLISHMENTS AND AWARDS

Mu Alpha Theta, Science National Honor Society – *President*   *August 2017 – May 2019*
- Implemented Scan to Sheets attendance for 700+ members which decreased sign-in times by 80%

National Merit Finalist   *March 2019*
- Chosen for PSAT score among top 0.5% of students in Texas

LANGUAGES AND SKILLS

Languages: Java, JavaScript, Swift, C, Node.js, HTML/CSS
Frameworks / Libraries: MongoDB, Firebase, GCP, Express, Socket.IO, Core Data/ML
Other: Git, Linux