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# Nicholas Paul Chaloult

## Education

August 2017 — December 2021 (Expected) **Georgia Institute of Technology**, *Atlanta, GA*.
- Candidate for Bachelor of Science in Computer Science
- Threads: Intelligence, Info & Internetworks
- GPA: 3.86/4.00

## Experience

September 2020 — December 2020 **Software Engineering Intern**, *Ultimate Software*, Atlanta, GA.
- To be determined

June 2020 — August 2020 **MLH Fellow**, *Major League Hacking*, Remote.
- Selected as one of 144 Fellows from a pool of 20,000 applicants to be a member of the Fellowship's inaugural class
- Collaborated with Amazon engineers on AWS Amplify: an open-source framework for leveraging AWS services in mobile and web applications
- Implemented functionality that allows users to write, test, and deploy Lambda functions with Swift through the Amplify CLI
- Wrote user-facing documentation and guides, as well as developer-facing design documents

May 2019 — August 2019 **Software Engineering Intern**, *DataScan*, Alpharetta, GA.
- Established pattern for new REST API endpoints that perform lightweight existence/authorization checks for subresources
- Relocated frequently accessed, but rarely modified, information from an Oracle database to a Redis in-memory cache

January 2018 — Present **Rise Up Undergraduate Assistant**, *College of Computing, Georgia Institute of Technology*, Atlanta, GA.
- Lead weekly webinars and monthly in-person sessions, explaining and demonstrating fundamental computer science concepts to Georgia high school students
- Helped organize and run the 2018 and 2019 AP Bowl, during which over 300 Georgia high school students took a mock AP Computer Science exam

## Personal Projects

**Codenames**, *Web Application*.

*An interactive implementation of the Codenames board game.*
- Users may create new games or join ongoing ones, and interact with the game board in real time
- React web application clients communicate with a Go server via persistent Websocket connections
- Go server manages game states and notifies clients of any changes, and persists games to a Postgres database
- Server and database are deployed in containers on Heroku; web application is hosted with Firebase

Ongoing **Many Voices for Museums**, *Cross-Platform React Native Application*.

*A more interactive and customizable alternative to existing audio tours in museums and art galleries.*
- Users may choose to hear multiple audio critiques of each artwork on display in whichever order they like
- React Native application fetches and displays content from an AWS S3 bucket through the AWS SDKs for Node.js

**Kindling**, *Web Service*.

*A home for "first Tinder message" ideas that disappear after twelve hours.*
- Message suggestions may be posted anonymously, upvoted, downvoted, and flagged as inappropriate
- REST APIs written in Go facilitate communication with Postgres database to perform basic CRUD operations
- Cron job runs periodically, purging all message suggestions older than twelve hours from the database

## Involvements

August 2019 — Present **GT Solar Racing**, *Telemetry Team Member*.
- Redesigned an existing two-way telemetry message protocol to support many more types of messages to the car
- Maintaining Go server that listens for and processes car vitals in real time via a TCP connection
- Integrating Grafana visualization tool with InfluxDB to easily monitor the state of the car as it races

## Skills and Attributes

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|---|---|
| Languages | TypeScript, JavaScript, Go, Java, Python, Swift, HTML, CSS |
| Frameworks | React, Redux, React Native, Express, Spring, Jest |
| Tools | Git, Docker, Travis CI, JIRA, Confluence, LaTeX |
| Technologies | GNU/Linux, Amazon Web Services, Node.js, PostgreSQL, Grafana, InfluxDB, Redis |