

Nicholas Paul Chaloult

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Education

- August 2017 — **Georgia Institute of Technology, Atlanta, GA.**
December 2021 (Expected)
 - Candidate for Bachelor of Science in Computer Science
 - Threads: Intelligence, Info & Internetworks
 - GPA: 3.85/4.00

Experience

- September 2020 — **"TechStar" Software Engineering Intern, Ultimate Software, Atlanta, GA.**
December 2020 TBD.
- June 2020 — **MLH Fellow, Major League Hacking, Remote.**
August 2020
 - 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
- May 2019 — **Software Engineering Intern, DataScan, Alpharetta, GA.**
August 2019
 - Established pattern for new REST API endpoints that perform lightweight existence/authorization checks for subresources
 - Helped move descriptions that clients customize from Oracle to an in-memory cache as a primary means of access
 - Discovered and addressed multiple situations where, when searching by search criteria, particular criteria could not be omitted
- January 2018 — **Rise Up Undergraduate Assistant, College of Computing, Georgia Institute of Technology, Atlanta, GA.**
Present
 - 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

- Ongoing **Kindling, Web Service.**
A home for "first Tinder message" ideas that disappear after twelve hours.
 - HTTP APIs written in Go facilitate communication with Postgres database to perform basic CRUD operations for message suggestions
 - "Cron job" runs periodically, purging all message suggestions older than twelve hours from the database
 - Message suggestions may be upvoted, downvoted, and flagged as inappropriate
- 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
- Friendly Competition, Web Application.**
Compares a League of Legends player's recent in-game performance with that of their friends.
 - Manages multiple, asynchronous calls to the Riot Games REST API, then aggregates and computes comparative statistics
 - Express back-end exposes one endpoint for React front-end to consume

Involvements

- August 2019 — **GT Solar Racing, Telemetry Team Member.**
Present
 - Refactored existing TCP message protocol to support many more types of messages to the car
 - Maintaining Go server that listens for car vitals in real time via CAN frames
 - 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 |
| Tools and Technologies | Git, Docker, Amazon Web Services, PostgreSQL, Grafana, InfluxDB, Redis, L ^A T _E X |
| Operating Systems | macOS, GNU/Linux |