

Nicholas Paul Chaloult

(478) 542.3133
nchaloult3@gatech.edu
nchaloult.com
github.com/nchaloult

Education

- August 2017 — **Georgia Institute of Technology, Atlanta, GA.**
May 2021 (Expected)
- Candidate for Bachelor of Science in Computer Science
 - Threads: Intelligence, Info & Internetworks
 - GPA: 3.83/4.00

Experience

- May 2020 — **“TechStar” Software Engineering Intern, Ultimate Software, Atlanta, GA.**
August 2020 TBD
- 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.
- REST API written in Go communicates 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
- 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
- Ongoing **Medicine Cabinet, iOS Application.**
Keeps track of what medications the user is taking, and informs them when they may have another dose of any particular medication.
- Uses Core Data to persistently store medicine descriptions and dosage information
 - Sets background timers with Grand Central Dispatch, and notifies user when a timer expires with a local notification

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

- Languages Java, Python, JavaScript, TypeScript, Go, C, Swift, HTML, CSS
- Frameworks React, Redux, Spring, Express, React Native
- Tools and Technologies Git, Docker, L^AT_EX, Postgres, Grafana, InfluxDB, AWS S3 & EC2 & RDS, Redis
- Operating Systems macOS, GNU/Linux
- Relevant Coursework Data Structures and Algorithms, Analysis of Algorithms, Intro to Artificial Intelligence, Game AI, Intro to Information Security, Object-Oriented Design, Object-Oriented Programming, Operating Systems and Networks, Computer Organization, Intro to Database Systems