Nicholas Paul Chaloult

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Education

August 2017 –
May 2021
(Expected)
Georgia Institute of Technology, *Atlanta, GA.*
- Candidate for Bachelor of Science in Computer Science
- Threads: Intelligence, Info & Internetworks
- GPA: 3.90/4.00
  - Major-specific GPA: 4.00/4.00

Experience

May 2019 –
Present
Software Engineering Intern, *DataScan*, Alpharetta, GA.
- 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 –
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

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 –
Present
GT Solar Racing, *Telemetry Team Member.*
- 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, Go, C, Swift, HTML, CSS
Frameworks and Libraries	React, Spring, Express
Tools and Technologies	Git, Docker, LaTeX, Postgres, Grafana, InfluxDB
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