Nicholas Paul Chaloult

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

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: 3.85/4.00

Experience

May 2020 —
August 2020

"TechStar" Software Engineering Intern, *Ultimate Software*, Atlanta, GA.
Cancelled due to COVID-19.

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
- 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.
- 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 Amplify development platform

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 —
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, Go, JavaScript, TypeScript, Python, C, Swift, HTML, CSS

Frameworks
: React, Redux, Spring, Express, React Native

Tools and Technologies
: Git, Docker, LaTeX, Postgres, Grafana, InfluxDB, AWS S3 & EC2 & RDS, Redis

Operating Systems
: macOS, GNU/Linux

Relevant Coursework
: Data Structures and Algorithms, Analysis of Algorithms, Machine Learning, 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