

Nicholas Chaloult

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Education

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

Experience

- September 2020 — **Software Engineering Intern**, *Ultimate Software*, Atlanta, GA.
December 2020
 - To be determined
- June 2020 — **MLH Fellow**, *Major League Hacking*, Remote.
- August 2020
 - Selected as one of 150 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 — **Software Engineering Intern**, *DataScan*, Alpharetta, GA.
- August 2019
 - 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 — **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

Involvements

- August 2019 — **GT Solar Racing**, *Telemetry Team Member*.
- Present
 - 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

Personal Projects

- Web Application **Codenames**, *An interactive implementation of the Codenames board game.*
 - Users may create new games and join ongoing ones, and interact with the game board in real time via Websockets
 - 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
- Web Service **Kindling**, *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 periodically purges all message suggestions older than twelve hours from the database
- Mobile Application **Many Voices for Museums**, *A more interactive alternative to audio tours in museums and art galleries.*
 - Users may filter and search through artwork, and play audio recordings of critics' thoughts about that artwork
 - React Native application fetches and displays content from an AWS S3 bucket through the AWS SDKs for Node.js
- Web Application **Friendly Competition**, *Compares a League of Legends player's recent in-game performance with that of their friends.*
 - Aggregates and visualizes hallmark in-game statistics for four players, letting them compare themselves to each other
 - Node.js application fetches and analyzes in-game performance data from REST API, and React application displays those results with Chart.js

Skills and Attributes

- 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